

ECMA/TC38-TG3/2015/026 (Rev. 1 – 15 April 2015)

## Annex B2 - Product environmental attributes Computer Monitors

The declaration may be published only when all rows and/or fields marked with \* are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	Lenovo	Logo			
Company name *	Lenovo				
e-mail address	Lenovo Global Environmental Affairs Alvin L Carter alcarter@lenovo.com	Lenovo			
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment.html				
Additional information					

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.					
Type of product *	Monitor				
Commercial name *	Lenovo D24f-10				
Model number *	65EB				
Issue date *	2018/11/20				
Intended market *	🔀 Global 📃 Europe 📃 Asia, Pacific & Japan 📃 Americas 📃 Other				
Additional information					

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

## About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

P4.1 – P4.3 Consumable materials

P9.1 TEC and Print speed

P10.2 - P10.3 Chemical emissions from printing products

P11.1 - P11.3 Consumable materials for printing products.

P1       Hazardous substances and preparations         P1.1*       Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)       Image: Comment: Legal reference has no maximum concentration value.         P1.3*       Products do not contain Asbestos (see legal reference).       Image: Comment: Legal reference has no maximum concentration value.         P1.3*       Products do not contain Ozone Depleting Substances: Chlorofluorocahons (CFC), hydrobromofluorocahons (HBFC), hydrochlorofluorocahons (HCFC), Halons, carbonterachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference).       Image: Comment: Legal reference has no maximum concentration values.         P1.4*       Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).       Image: Comment: Max limit in legal reference when tested according to EN1811:2011-5.         P1.7*       Practwork do not contain a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibility/Us/en/vironment.html         P2.4*       Batteries       Image: P1.5*         P1.6*       Retarties as ad accumulators are readily removable. (See legal reference)       Image: P1.5*         P1.7*       REACH Artice 33 information abore contain a batery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See le	Model n	umber *	65EB	Logo			
Item       Yes       No.         P1       Hazardous substances and preparations       P1.1*       Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)       □         P1.2*       Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.       □         P1.3*       Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (DFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1- trichloroethane, methyl bronide (see legal reference).       □         P1.4*       Products do not contain more than: 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).       □         P1.4*       Products do not contain more than: 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).       □         P1.5*       Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).       □         P1.6*       Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm²/week (see legal reference).       □         Comment: Max limit in legal reference when tested according to EN1811:2011-5.       □         P1.7*       REACH Artice 3 in formation about substances in articles is available at (add URL):       □         P1.7* <th colspan="2">Issue date *</th> <th colspan="2">2018/11/20</th> <th>Len</th> <th></th> <th>D</th>	Issue date *		2018/11/20		Len		D
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P1.1*       Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)       □         P1.2*       Products do not contain Asbestos (see legal reference).       □         Comment: Legal reference has no maximum concentration value.       □         P1.3*       Products do not contain Ozone Depleting Substances: Chlorofluorcarbons (CFC), hydrobromfluorcarbons (HPC), hyd	ltem				Yes	No	n.a.
P1.2*       Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.       Image: Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HBFC), hydrochlorofluorocarbons (HBFC), hydrochlorofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbonetrachloride, 1,1,1-trichorochtane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.         P1.4*       Products do not contain more than, 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCI) in preparations (see legal reference).       Image: CPC (See legal reference).         P1.5*       Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of choirne in the SCCP (see legal reference).       Image: CPC (See legal reference).         P1.6*       Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 µg/cm²/week (see legal reference).       Image: CPC (see legal reference).         P1.7*       REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibility/us/en/en/vironment.html         P2       Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference).         P2.3*       Batteries and accumulators are readily removable. (See legal reference)         P3.4*       Conformity verification & Eco design (ErP)         P3.4*       If the product contains a battery or an accumulator for energy-related products, (see leg							
Comment: Legal reference has no maximum concentration value.       Image: Comment: Legal reference has no maximum concentration value.         P1.3*       Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HEFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichlorocetahons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichlorocetahons (HBFC), hydrochlorofluorearbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichlorocetahons (HBFC), hydrochlorofluorearbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichlorocetahons (HBFC), hydrochlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).         P1.4*       Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).       Image: Comment: Max Limit in legal reference when tested according to EN1811:2011-5.         P1.6*       Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 µg/cm²/week (see legal reference).       Image: Comment: Max Limit in legal reference when tested according to EN1811:2011-5.         P1.7*       REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibility/us/en/environment.html       Image: P2.4*         P2.4*       Batteries       Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference).       Image: P2.4*         P2.2*       Batteries on accumulators are readily removable. (See legal	P1.1*	Product	s do comply with current European RoHS Directive. (See legal reference and NOTE	B1)	$\boxtimes$		
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P2.3*       Batteries and accumulators are readily removable. (See legal reference)	P2.1*						$\boxtimes$
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The Declaration of Conformity can be requested at (add link or e-mail address):         https://www3.lenovo.com/us/en/social_responsibility/EU_DoC_Monitors         P3.2*       The product complies with the Eco design requirements for energy-related products, (see legal reference).         Required information is;       given in item P15 or added to this document,         available at (add URL):       available at (add URL):         https://www.lenovo.com/us/en/social_responsibility/datasheets_monitors/         P5       Product packaging         P5.1*       Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.         P5.2*       The product packaging materials are marked with abbreviations and numbers indicating the nature of the material(s)         P5.3*       The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).         P5.3*       The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).         Comment: Legal reference has no maximum concentration values.           P6       Treatment information	P3	Conformity verification & Eco design (ErP)					
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Required information is;       given in item P15 or added to this document,       Image: Comparison of the section of the	P3.2*	The pro	duct complies with the Eco design requirements for energy-related products,		$\square$		
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P6 Treatment information	P5.3*	(see legal reference).					
	De						
					$\square$		_

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model number * Issue date *		65EB	Logo			
		2018/11/20		Len	Lenovo	
Produc	t environ	mental attributes - Market requirements (See General NOTE GN	below)			
		onmental conscious design		Require	ment	met
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P7	Design Disasse	mbly, recycling				
P7.1*	Parts that	t have to be treated separately are easily separable		$\boxtimes$		
P7.2*	Plastic m	naterials in covers/housing have no surface coating.			X	
P7.3*	Plastic p	arts > 100 g consist of one material or of easily separable materials.			Ē	
P7.4*	Plastic p	arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.			Ē	Ē
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly a	available tools.			Ħ
P7.6*	-	re easily separable. (This requirement does not apply to safety/regulatory labels).				H
	Product					
P7.7*		ng can be done e.g. with processor, memory, cards or drives				
P7.8*		ng can be done using commonly available tools			Ħ	Ħ
P7.9		arts are available after end of production for: 5 years				Ħ
P7.10		s available after end of production for: 5 years				⊢⊢
		and substance requirements				
P7.11*	Product	cover/housing material type (e.g. plastics, metal, aluminum):				
	Material	type: ABS Material type: PC Materia	al type:			
P7.12	Insulatio	n materials of external electrical cables are PVC free.			$\times$	
P7.13	Insulatio	n materials of internal electrical cables are PVC free.			$\boxtimes$	
P7.14	weight (' polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) b 1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine i in 25% post-consumer recycled content.	e retardants, a	nd		
P7.15	Printed c	ircuit boards, PCBs (without components) are low halogen: all ⊠ PCBs > 25 g ad in IEC 61249-2-21. (See 1NOTE B2)	are low halog	en	$\boxtimes$	
P7.16	Marking:					$\square$
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without c PA (additive), TBBPA (reactive) (See NOTE B3), Other: , CAS #:	omponents):	$\boxtimes$		
		nemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4:	ents) > 25 g		$\square$	
P7.18	concentr 1. Chem 2. Chem	ame retarded plastic parts > 25 g contain the following flame retardant substance ations above 0,1%: ical name: , CAS #: (See NOTE B4) ical name: , CAS #: " ical name: , CAS #: "	es/preparations	in		
		nemical specifications of flame retardants in plastic parts > 25 g according ISO 104	3-4:		$\square$	
P7.19	assigned	parts > 25 g, flame retardant substances/preparations above 0,1% are used which I the following Risk phrases; and Hazard statements:				
P7.20*		rce(s) for these classifications is/are found at (add URL(s)): , (S sumer recycled plastic material content is used in the product (See Note B6):	See note B5)		$\boxtimes$	
	lfYES;a a) Oft ape or	at least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material conten- ercentage of total plastic by weight) is <i>0%. (EPEAT calculation) / 0% (TCO calcul</i> e weight of recycled material is <i>0</i> g.		3		

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number *	65EB	Logo	
Issue date *	2018/11/20		Lenovo
Product environm	nental attributes - Market requirements (continued)		Requirement met

Item

Requirement met Yes No n.a.

		stance requirements						
P7.21*	Biobased plastic material content is used in the product (See NOTE B7):							
	a) Of total plasti	<ul> <li>f YES; at least one of the two alternatives below shall be answered;</li> <li>a) Of total plastic parts' weight &gt; 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is 0%.</li> </ul>						
	or	· · · · · · · · · ·						
<b>DT</b> 0.01	, ,	f the biobased plastic r	ě					
P7.22*		free from mercury, i.e. specify: Number of lan	less than 0,1 mg/lamp.	im mercury content pe	r lamp: mg			
P8	Batteries	specily. Number of lan	nps. anu maximu	in mercury content pe	lamp. mg			
P8.1*	Battery chemical of	composition:				1		
P9	,	tion (See NOTE B8)				<u> </u>		
P9.1			s or energy consumptio	ns are reported:				
Energy mo		Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method *			
ENERGY S (System Id	STAR® On Mode* le)	21.99W	23.29W	23.27W	ENERGY STAR® Program Requirements for Computer Monitors: Ver. 7.0			
ENERGY S Sleep Mod	STAR® Low Power e*	0.21W	0.21W	0.26W	ENERGY STAR® Program Requirements for Computer Monitors: Ver. 7.0			
ENERGY S Apparent C	STAR® Off / Off Mode*	0.16W	0.16W	0.21W	ENERGY STAR® Program Requirements for Computer Monitors: Ver. 7.0			
		1						
PTEC *	arm Canaumatian	W	W	W	L			
ETEC *	ergy Consumption	73.34.6kWh/year	72.61 kWh/year	72.83 kWh/year	E <sub>TEC</sub> = (8760/1000) x (P <sub>off</sub> x 0.6 +	-		
Annual Energy Consumption		70.04.0KW1/yCa	12.01 KWII/yCal	72.00 KWII/yCal	$P_{sleep} \times 0.1 + P_{idle} \times 0.3$			
		ncy Level (International	Efficiency Marking Pro	tocol) * :		1		
Display res	solution* : <b>1920*10</b>	80 megapixels			ENERGY STAR® Program Requirements for Computer Monitors: Ver. 7.0			
Default tim	e to enter energy sa	ave mode: 15 seconds			ENERGY STAR® Program Requirements for Computer Monitors: Ver. 7.0			
P9.2*	Information about	the energy save function	on is provided with the	product.				
P9.3*	*       The product meets the energy requirements of the following voluntary program/s:       Image: Comparison of the following voluntary program/s:         ENERGY STAR® version:       Product category: Display.         The data of P9.1 is from TPV plant test ,EPA is not required for this model							
P10	Emissions							
	Noise emission -	Declared according to	ISO 9296 (See NOTE	B9)				
P10.1		Node description		Statistical upper limit	t A-weighted sound power level, $L_{WA,c}$ (B)			
	Idle *	HDD: Idle		*		3		
		HDD: Operating		*	$\geq$	3		
	Other mode	Declared A-weighted soun	d pressure level (dB) $L_{p{\sf Am}}$	(operator pos	sition desktop – idle)			
	Other mode	Declared A-weighted soun	d pressure level (dB) $L_{p Am}$	(operator pos	sition desktop – operating)			
	Measured accordi	ng to: 🔀 ISO 7779 🗌	ECMA-74					
		Other	(only if not covered by	ECMA-74)				

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available;

see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B9 A Guidance document on Acoustic Noise is available; see <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>

Model nu	imber *	65EB				Logo				
Issue date *		2018/11/20					Leno		OTH	
Product	environ	nental attribu	ites - Market requiren	nents (continued)			Require		met	
ltem							Yes	No	n.a	
		magnetic emiss								
P10.4	program	(s):	the requirement for low f	frequency electromagnet	ic fields of the foll	owing volur	ntary		$\square$	
P12		mics for comp								
P12.1*			rgonomic requirements o			gies.	$\square$			
P12.2*	The phy	sical input devic	e meets the requirements	s of ISO 9995 and ISO 92	241-410.				$\boxtimes$	
P13	Packagi	ng and docum	entation							
P13.1*	Product Product	packaging mate	erial type(s): Carton Box erial type(s): Cusion erial type(s): Bag erial type(s):	weight (kg): 0.79 weight (kg): 0.255 weight (kg): 0.022 weight (kg):						
P13.2*			packaging is free from PV				$\boxtimes$			
P13.3*			rrugated fiberboard pack er content: <b>59</b> %	aging, specify the conta	ined percentage	of minimu	m post-			
P13.4*	Specify		ind product documentatio	n (tick box):						
P13.5	Úser an		nis item if paper documen nentation on paper media					$\boxtimes$		
	Element	hlorine-free al chlorine-free ed chlorine-free								
P14	Volunta	ry programs								
P14.1	The proc	duct meets the r	equirements of the follow	ing voluntary program(s)	: No application for	or TCO&EP	A for D24f-10			
	Eco-labe Eco-labe	el:	Criteria version: Criteria version: Criteria version:	Date: Date: Date:	Product	category: category: category:				
P15			(See NOTE B10)							
P9	NOTE: S informat knowled provideo	Supplier makes ion contained in ge available at t I here is approx	of specific configuration no representations, guara this document. All inform he time of completion, an mate and provided for inf	antees, assurances or wa nation provided by supplie ad supplier shall have no	rranties whether er in this documer obligation to upda	express or i nt is provide ate such info	implied, regardin d based on supp ormation. The inf	olier's ormati	ion	
P9		ergy Star Qualifi	ed Monitors & Displays fo gov/products/office_equip							

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

## Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1