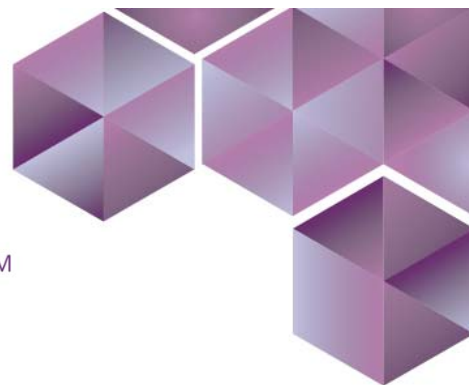


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**23551. The ultraviolet absorption spectra of Dibenzyldicycloalkandione-(1,2)**  
Ultravioletabsorptionsspektren von Dibenzyldicycloalkandione-(1,2)

By: Leonard, Nelson J.; Robinson, Gene C.

Authors continue their investigations of the Chromophorwirkung von Dicarboxylverbindungen (cf. Chemisches Zentralblatt 1951. II. 2297) examining at Dibenzyldicycloalkandione-(1,2) the influence of the angle between the planes of the Carbonylgruppen on the absorption. Ring members integer relatively much freedom for the adjustment of the angle between the CO-Gruppen have spectra largely agree; the following values were in Cyclohexanring, measured: 3,7-Dibenzyldicycloheptandione-(1,2), 306 [A in mμ]; 233 (4.10). — 3,9-Di-benzyldicycloheptandione-(1,2), 232 (4.04). — 3,10-Dibenzyldicyclodecandione-(1,2), 305 (4.10); 233 (EUR). — 3,11-Dibenzyldicyclodecandione-(1,2), 306 (4.23); 266 (4.12); 234 (4.05). — Ginnamil, 330 (4.52); 260 (4.12). — 3,12-Dibenzyldicyclododecandione-(1,2), 306 (4.23); 266 (4.12); 234 (4.05). — authors points with model substances account of the bands in the middle and long wavelength UV on and discuss the Mol.-Modellen. — The infrared maxima of the compounds (in nujol specified. Experiments (all Melting points corrected). 3,7-Dibenzyldicycloheptandione-(1,2), C<sub>23</sub>H<sub>22</sub>O<sub>2</sub>, melting point 109.5–110.5 ° (Ac); Cyclonandion-(1,2) by condensation with benzaldehyde in the presence of piperidine, fine yellow needles; 17% (yield). — 3,10-Dibenzyldicyclodecandione-(1,2), C<sub>27</sub>H<sub>26</sub>O<sub>2</sub>, melting point 139–140 ° (Ac). From Sebacal analog, yellow needles; 71%. — 3,11-Dibenzyldicyclodecandione-(1,2), C<sub>27</sub>H<sub>26</sub>O<sub>2</sub>, melting point 129–136 ° (Ac) or melting point approximately 150 ° (acetic ester).

Indexing

Concepts

molecular weight	wavelength
ultraviolet absorption	freedom
prisms	melting points
fractional crystallization	

Substances

96-01-5 1,2-Cyclodecanedione	
435274-45-6 Cyclooctadecanone, 2-hydroxy-	
64-19-7 Acetic acid	
42052-61-9 (2E,6E)-2,6-Bis(phenylmethylene)cyclohexanone	
62085-48-7 (2E,7E)-2,7-Bis(phenylmethylene)cyclohexanone	
141-78-6 Ethyl acetate	
4255-62-3 4,4-Dimethylcyclohexanone	
100-52-7 Benzaldehyde	
78-93-3 Methyl ethyl ketone	
110-89-4 Piperidine	

英語抄録

用語索引  
物質索引

Chemisches Zentralblatt の  
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記載位置



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