

# cis-Cyclohex-4-en-1,2-dicarboxylic acid, hexyl phenethyl ester

Inchi:	InChI=1S/C22H30O4/c1-2-3-4-10-16-25-21(23)19-13-8-9-14-20(19)22(24)26-17-15-18-1
InchiKey:	VBPRPRSWYOEFPZ-UHFFFAOYSA-N
Formula:	C22H30O4
SMILES:	CCCCCOC(=O)C1CC=CCC1C(=O)OCCc1ccccc1
Mol. weight [g/mol]:	358.47

## Physical Properties

Property code	Value	Unit	Source
gf	-174.37	kJ/mol	Joback Method
hf	-658.72	kJ/mol	Joback Method
hfus	46.48	kJ/mol	Joback Method
hvap	85.57	kJ/mol	Joback Method
log10ws	-5.12		Crippen Method
logp	4.478		Crippen Method
mvol	296.800	ml/mol	McGowan Method
pc	1372.76	kPa	Joback Method
rinpol	2607.00		NIST Webbook
rinpol	2607.00		NIST Webbook
tb	896.06	K	Joback Method
tc	1113.65	K	Joback Method
tf	512.34	K	Joback Method
vc	1.125	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	967.83	J/molxK	896.06	Joback Method
cpg	984.41	J/molxK	932.32	Joback Method
cpg	999.45	J/molxK	968.59	Joback Method
cpg	1013.01	J/molxK	1004.85	Joback Method
cpg	1025.10	J/molxK	1041.12	Joback Method
cpg	1035.78	J/molxK	1077.38	Joback Method
cpg	1045.08	J/molxK	1113.65	Joback Method
dvisc	0.0006920	Paxs	512.34	Joback Method

dvisc	0.0003666	Paxs	576.29	Joback Method
dvisc	0.0002205	Paxs	640.25	Joback Method
dvisc	0.0001455	Paxs	704.20	Joback Method
dvisc	0.0001029	Paxs	768.15	Joback Method
dvisc	0.0000767	Paxs	832.11	Joback Method
dvisc	0.0000596	Paxs	896.06	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382793&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382793&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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