

# 1,2-Cyclohexanedicarboxylic acid, di(3-phenylpropyl) ester

Inchi:	InChI=1S/C26H32O4/c27-25(29-19-9-15-21-11-3-1-4-12-21)23-17-7-8-18-24(23)26(28)3
InchiKey:	LWMUYODOVNQHFB-UHFFFAOYSA-N
Formula:	C26H32O4
SMILES:	O=C(OCCCCc1ccccc1)C1CCCCC1C(=O)OCCCCc1ccccc1
Mol. weight [g/mol]:	408.53

## Physical Properties

Property code	Value	Unit	Source
gf	-58.24	kJ/mol	Joback Method
hf	-562.53	kJ/mol	Joback Method
hfus	49.66	kJ/mol	Joback Method
hvap	96.45	kJ/mol	Joback Method
log10ws	-6.05		Crippen Method
logp	5.145		Crippen Method
mcvol	333.700	ml/mol	McGowan Method
pc	1286.51	kPa	Joback Method
rinpol	3258.00		NIST Webbook
tb	1015.10	K	Joback Method
tc	1253.73	K	Joback Method
tf	583.08	K	Joback Method
vc	1.256	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1136.31	J/molxK	1015.10	Joback Method
cpg	1150.54	J/molxK	1054.87	Joback Method
cpg	1162.94	J/molxK	1094.64	Joback Method
cpg	1173.59	J/molxK	1134.41	Joback Method
cpg	1182.56	J/molxK	1174.18	Joback Method
cpg	1189.95	J/molxK	1213.96	Joback Method
cpg	1195.81	J/molxK	1253.73	Joback Method
dvisc	0.0003920	Paxs	583.08	Joback Method
dvisc	0.0002050	Paxs	655.08	Joback Method

dvisc	0.0001219	Paxs	727.09	Joback Method
dvisc	0.0000796	Paxs	799.09	Joback Method
dvisc	0.0000558	Paxs	871.09	Joback Method
dvisc	0.0000413	Paxs	943.10	Joback Method
dvisc	0.0000319	Paxs	1015.10	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339501&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339501&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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>

## 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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