

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

<b>Inchi:</b>	InChI=1S/C20H26O4/c1-15(2)14-24-20(22)18-11-7-6-10-17(18)19(21)23-13-12-16-8-4-3
<b>InchiKey:</b>	KKNVKFIYBCSWKH-UHFFFAOYSA-N
<b>Formula:</b>	C20H26O4
<b>SMILES:</b>	CC(C)COC(=O)C1CC=CCC1C(=O)OCCc1cccc1
<b>Mol. weight [g/mol]:</b>	330.42

## Physical Properties

Property code	Value	Unit	Source
gf	-193.65	kJ/mol	Joback Method
hf	-622.72	kJ/mol	Joback Method
hfus	37.78	kJ/mol	Joback Method
hvap	80.73	kJ/mol	Joback Method
log10ws	-4.05		Crippen Method
logp	3.554		Crippen Method
mvol	268.620	ml/mol	McGowan Method
pc	1601.28	kPa	Joback Method
rinpol	2369.00		NIST Webbook
rinpol	2369.00		NIST Webbook
tb	849.86	K	Joback Method
tc	1072.21	K	Joback Method
tf	474.80	K	Joback Method
vc	1.008	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	849.47	J/mol×K	849.86	Joback Method
cpg	866.39	J/mol×K	886.92	Joback Method
cpg	881.76	J/mol×K	923.98	Joback Method
cpg	895.63	J/mol×K	961.03	Joback Method
cpg	908.03	J/mol×K	998.09	Joback Method
cpg	919.00	J/mol×K	1035.15	Joback Method
cpg	928.55	J/mol×K	1072.21	Joback Method
dvisc	0.0009512	Paxs	474.80	Joback Method

dvisc	0.0004811	Paxs	537.31	Joback Method
dvisc	0.0002804	Paxs	599.82	Joback Method
dvisc	0.0001810	Paxs	662.33	Joback Method
dvisc	0.0001260	Paxs	724.84	Joback Method
dvisc	0.0000929	Paxs	787.35	Joback Method
dvisc	0.0000716	Paxs	849.86	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382789&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382789&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>

## 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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