

# Isophthalic acid, butyl 3,4-dimethylcyclohexyl ester

Inchi:	InChI=1S/C20H28O4/c1-4-5-11-23-19(21)16-7-6-8-17(13-16)20(22)24-18-10-9-14(2)15(3)
InchiKey:	HSVGGNQKTUASDG-UHFFFAOYSA-N
Formula:	C20H28O4
SMILES:	CCCCOC(=O)c1cccc(C(=O)OC2CCC(C)C(C)C2)c1
Mol. weight [g/mol]:	332.43

## Physical Properties

Property code	Value	Unit	Source
gf	-238.51	kJ/mol	Joback Method
hf	-707.03	kJ/mol	Joback Method
hfus	40.76	kJ/mol	Joback Method
hvap	81.17	kJ/mol	Joback Method
log10ws	-5.67		Crippen Method
logp	4.625		Crippen Method
mcvol	272.920	ml/mol	McGowan Method
pc	1489.58	kPa	Joback Method
rinpol	2577.00		NIST Webbook
rinpol	2577.00		NIST Webbook
tb	851.45	K	Joback Method
tc	1070.31	K	Joback Method
tf	497.32	K	Joback Method
vc	1.026	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	880.62	J/molxK	851.45	Joback Method
cpg	898.37	J/molxK	887.93	Joback Method
cpg	914.53	J/molxK	924.40	Joback Method
cpg	929.11	J/molxK	960.88	Joback Method
cpg	942.13	J/molxK	997.35	Joback Method
cpg	953.60	J/molxK	1033.83	Joback Method
cpg	963.55	J/molxK	1070.31	Joback Method
dvisc	0.0007954	Paxs	497.32	Joback Method

dvisc	0.0004626	Paxs	556.34	Joback Method
dvisc	0.0002985	Paxs	615.36	Joback Method
dvisc	0.0002079	Paxs	674.38	Joback Method
dvisc	0.0001535	Paxs	733.41	Joback Method
dvisc	0.0001186	Paxs	792.43	Joback Method
dvisc	0.0000950	Paxs	851.45	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U343803&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343803&amp;Units=SI</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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