

# Isophthalic acid, ethyl 4-tert-butylcyclohexyl ester

Inchi:	InChI=1S/C20H28O4/c1-5-23-18(21)14-7-6-8-15(13-14)19(22)24-17-11-9-16(10-12-17)2
InchiKey:	VVUIPGBCVVHFEF-UHFFFAOYSA-N
Formula:	C20H28O4
SMILES:	CCOC(=O)c1cccc(C(=O)OC2CCC(C(C)(C)C)CC2)c1
Mol. weight [g/mol]:	332.43

## Physical Properties

Property code	Value	Unit	Source
gf	-227.96	kJ/mol	Joback Method
hf	-695.44	kJ/mol	Joback Method
hfus	32.27	kJ/mol	Joback Method
hvap	80.19	kJ/mol	Joback Method
log10ws	-5.67		Crippen Method
logp	4.625		Crippen Method
mcvol	272.920	ml/mol	McGowan Method
pc	1551.22	kPa	Joback Method
rinpol	2501.00		NIST Webbook
rinpol	2501.00		NIST Webbook
tb	852.89	K	Joback Method
tc	1080.23	K	Joback Method
tf	503.98	K	Joback Method
vc	1.016	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	877.69	J/molxK	852.89	Joback Method
cpg	950.93	J/molxK	1042.34	Joback Method
cpg	939.28	J/molxK	1004.45	Joback Method
cpg	926.18	J/molxK	966.56	Joback Method
cpg	911.59	J/molxK	928.67	Joback Method
cpg	895.44	J/molxK	890.78	Joback Method
cpg	961.18	J/molxK	1080.23	Joback Method
dvisc	0.0000579	Paxs	852.89	Joback Method

dvisc	0.0000750	Paxs	794.74	Joback Method
dvisc	0.0001014	Paxs	736.59	Joback Method
dvisc	0.0001442	Paxs	678.43	Joback Method
dvisc	0.0002192	Paxs	620.28	Joback Method
dvisc	0.0003633	Paxs	562.13	Joback Method
dvisc	0.0006766	Paxs	503.98	Joback Method

## Sources

<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=U345733&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U345733&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>

## 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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