

# Glutaric acid, isobutyl 2-tert-butyl-6-methylphenyl ester

Inchi:	InChI=1S/C20H30O4/c1-14(2)13-23-17(21)11-8-12-18(22)24-19-15(3)9-7-10-16(19)20(4)
InchiKey:	CYBUQWKLVCIIFA-UHFFFAOYSA-N
Formula:	C20H30O4
SMILES:	<chem>Cc1cccc(C(C)(C)C)c1OC(=O)CCCC(=O)OCC(C)C</chem>
Mol. weight [g/mol]:	334.45

## Physical Properties

Property code	Value	Unit	Source
gf	-256.77	kJ/mol	Joback Method
hf	-746.17	kJ/mol	Joback Method
hfus	35.46	kJ/mol	Joback Method
hvap	80.34	kJ/mol	Joback Method
log10ws	-5.13		Crippen Method
logp	4.567		Crippen Method
mcvol	283.780	ml/mol	McGowan Method
pc	1353.63	kPa	Joback Method
rinqol	2350.00		NIST Webbook
tb	842.55	K	Joback Method
tc	1050.69	K	Joback Method
tf	498.36	K	Joback Method
vc	1.079	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	878.59	J/molxK	842.55	Joback Method
cpg	894.95	J/molxK	877.24	Joback Method
cpg	910.13	J/molxK	911.93	Joback Method
cpg	924.16	J/molxK	946.62	Joback Method
cpg	937.07	J/molxK	981.31	Joback Method
cpg	948.92	J/molxK	1016.00	Joback Method
cpg	959.72	J/molxK	1050.69	Joback Method
dvisc	0.0005272	Paxs	498.36	Joback Method
dvisc	0.0002752	Paxs	555.72	Joback Method

dvisc	0.0001622	Paxs	613.09	Joback Method
dvisc	0.0001046	Paxs	670.45	Joback Method
dvisc	0.0000724	Paxs	727.82	Joback Method
dvisc	0.0000528	Paxs	785.18	Joback Method
dvisc	0.0000402	Paxs	842.55	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=U359134&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359134&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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