

# Glutaric acid, cyclohexylmethyl 2,3-dimethylphenyl ester

Inchi:	InChI=1S/C20H28O4/c1-15-8-6-11-18(16(15)2)24-20(22)13-7-12-19(21)23-14-17-9-4-3-5
InchiKey:	KLRYPRLQCNNICL-UHFFFAOYSA-N
Formula:	C20H28O4
SMILES:	<chem>Cc1cccc(OC(=O)CCCC(=O)OCC2CCCCC2)c1C</chem>
Mol. weight [g/mol]:	332.43

## Physical Properties

Property code	Value	Unit	Source
gf	-232.72	kJ/mol	Joback Method
hf	-677.82	kJ/mol	Joback Method
hfus	38.23	kJ/mol	Joback Method
hvap	82.45	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	4.503		Crippen Method
mvol	272.920	ml/mol	McGowan Method
pc	1550.00	kPa	Joback Method
rinpol	2603.00		NIST Webbook
rinpol	2603.00		NIST Webbook
tb	865.77	K	Joback Method
tc	1085.78	K	Joback Method
tf	518.32	K	Joback Method
vc	1.028	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	872.20	J/molxK	865.77	Joback Method
cpg	889.04	J/molxK	902.44	Joback Method
cpg	904.39	J/molxK	939.11	Joback Method
cpg	918.27	J/molxK	975.77	Joback Method
cpg	930.72	J/molxK	1012.44	Joback Method
cpg	941.74	J/molxK	1049.11	Joback Method
cpg	951.38	J/molxK	1085.78	Joback Method
dvisc	0.0005810	Paxs	518.32	Joback Method

dvisc	0.0003257	Paxs	576.23	Joback Method
dvisc	0.0002029	Paxs	634.14	Joback Method
dvisc	0.0001368	Paxs	692.04	Joback Method
dvisc	0.0000981	Paxs	749.95	Joback Method
dvisc	0.0000737	Paxs	807.86	Joback Method
dvisc	0.0000576	Paxs	865.77	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=U392223&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392223&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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