

# Glutaric acid, cyclohexylmethyl 2,4,4-trimethylpentyl ester

Inchi:	InChI=1S/C20H36O4/c1-16(13-20(2,3)4)14-23-18(21)11-8-12-19(22)24-15-17-9-6-5-7-10
InchiKey:	SOZSIQOAKKKNNY-UHFFFAOYSA-N
Formula:	C20H36O4
SMILES:	CC(COC(=O)CCCC(=O)OCC1CCCCC1)CC(C)(C)C
Mol. weight [g/mol]:	340.50

## Physical Properties

Property code	Value	Unit	Source
gf	-325.47	kJ/mol	Joback Method
hf	-905.44	kJ/mol	Joback Method
hfus	34.03	kJ/mol	Joback Method
hvap	77.17	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	4.896		Crippen Method
mvol	296.680	ml/mol	McGowan Method
pc	1262.85	kPa	Joback Method
rinpol	2296.00		NIST Webbook
rinpol	2296.00		NIST Webbook
tb	825.46	K	Joback Method
tc	1028.06	K	Joback Method
tf	454.28	K	Joback Method
vc	1.119	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	967.68	J/molxK	825.46	Joback Method
cpg	1051.00	J/molxK	994.29	Joback Method
cpg	1036.89	J/molxK	960.53	Joback Method
cpg	1021.54	J/molxK	926.76	Joback Method
cpg	1004.92	J/molxK	892.99	Joback Method
cpg	986.98	J/molxK	859.23	Joback Method
cpg	1063.92	J/molxK	1028.06	Joback Method
dvisc	0.0000402	Paxs	825.46	Joback Method

dvisc	0.0000558	Paxs	763.60	Joback Method
dvisc	0.0000820	Paxs	701.73	Joback Method
dvisc	0.0001297	Paxs	639.87	Joback Method
dvisc	0.0002266	Paxs	578.01	Joback Method
dvisc	0.0004522	Paxs	516.14	Joback Method
dvisc	0.0010895	Paxs	454.28	Joback Method

## Sources

<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=U391534&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391534&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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