

# Glutaric acid, cyclohexylmethyl 3-phenylpropyl ester

Inchi:	InChI=1S/C21H30O4/c22-20(24-16-8-13-18-9-3-1-4-10-18)14-7-15-21(23)25-17-19-11-5
InchiKey:	WWWVSHROGHQNJZ-UHFFFAOYSA-N
Formula:	C21H30O4
SMILES:	O=C(CCCC(=O)OCC1CCCCC1)OCCc1ccccc1
Mol. weight [g/mol]:	346.46

## Physical Properties

Property code	Value	Unit	Source
gf	-205.04	kJ/mol	Joback Method
hf	-675.52	kJ/mol	Joback Method
hfus	41.60	kJ/mol	Joback Method
hvap	83.36	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	4.456		Crippen Method
mvol	287.010	ml/mol	McGowan Method
pc	1472.49	kPa	Joback Method
rinpol	2715.00		NIST Webbook
rinpol	2715.00		NIST Webbook
tb	878.69	K	Joback Method
tc	1096.10	K	Joback Method
tf	504.55	K	Joback Method
vc	1.085	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	933.14	J/molxK	878.69	Joback Method
cpg	950.16	J/molxK	914.92	Joback Method
cpg	965.69	J/molxK	951.16	Joback Method
cpg	979.76	J/molxK	987.39	Joback Method
cpg	992.42	J/molxK	1023.63	Joback Method
cpg	1003.71	J/molxK	1059.86	Joback Method
cpg	1013.66	J/molxK	1096.10	Joback Method
dvisc	0.0007105	Paxs	504.55	Joback Method

dvisc	0.0003551	Paxs	566.91	Joback Method
dvisc	0.0002036	Paxs	629.26	Joback Method
dvisc	0.0001290	Paxs	691.62	Joback Method
dvisc	0.0000882	Paxs	753.98	Joback Method
dvisc	0.0000639	Paxs	816.33	Joback Method
dvisc	0.0000485	Paxs	878.69	Joback Method

## Sources

<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=U391777&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391777&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>

## 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>h<sub>vap</sub>:</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>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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