

# Glutaric acid, naphth-2-ylmethyl 2-ethylhexyl ester

Inchi:	InChI=1S/C24H32O4/c1-3-5-9-19(4-2)17-27-23(25)12-8-13-24(26)28-18-20-14-15-21-10
InchiKey:	RBKWZQQCICMHIT-UHFFFAOYSA-N
Formula:	C24H32O4
SMILES:	CCCCC(CC)COC(=O)CCCC(=O)OCc1ccc2ccccc2c1
Mol. weight [g/mol]:	384.51

## Physical Properties

Property code	Value	Unit	Source
gf	-109.65	kJ/mol	Joback Method
hf	-617.44	kJ/mol	Joback Method
hfus	50.64	kJ/mol	Joback Method
hvap	91.52	kJ/mol	Joback Method
log10ws	-7.08		Crippen Method
logp	5.813		Crippen Method
mvol	320.680	ml/mol	McGowan Method
pc	1221.70	kPa	Joback Method
rinpol	3012.00		NIST Webbook
rinpol	3012.00		NIST Webbook
tb	951.30	K	Joback Method
tc	1169.46	K	Joback Method
tf	561.20	K	Joback Method
vc	1.236	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1040.38	J/molxK	951.30	Joback Method
cpg	1106.15	J/molxK	1133.10	Joback Method
cpg	1095.11	J/molxK	1096.74	Joback Method
cpg	1083.09	J/molxK	1060.38	Joback Method
cpg	1070.00	J/molxK	1024.02	Joback Method
cpg	1055.78	J/molxK	987.66	Joback Method
cpg	1116.25	J/molxK	1169.46	Joback Method
dvisc	0.0000578	Paxs	951.30	Joback Method

dvisc	0.0000731	Paxs	886.28	Joback Method
dvisc	0.0000958	Paxs	821.27	Joback Method
dvisc	0.0001315	Paxs	756.25	Joback Method
dvisc	0.0001917	Paxs	691.23	Joback Method
dvisc	0.0003021	Paxs	626.22	Joback Method
dvisc	0.0005292	Paxs	561.20	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=U391479&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391479&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>

## 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>log<sub>p</sub>:</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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