

# Glutaric acid, neopentyl pentyl ester

<b>Inchi:</b>	InChI=1S/C15H28O4/c1-5-6-7-11-18-13(16)9-8-10-14(17)19-12-15(2,3)4/h5-12H2,1-4H3
<b>InchiKey:</b>	XDAMTRZDKRNXOO-UHFFFAOYSA-N
<b>Formula:</b>	C15H28O4
<b>SMILES:</b>	CCCCCOC(=O)CCCC(=O)OCC(C)(C)C
<b>Mol. weight [g/mol]:</b>	272.38

## Physical Properties

Property code	Value	Unit	Source
gf	-389.58	kJ/mol	Joback Method
hf	-851.28	kJ/mol	Joback Method
hfus	32.77	kJ/mol	Joback Method
hvap	66.00	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	3.479		Crippen Method
mcvol	237.090	ml/mol	McGowan Method
pc	1541.49	kPa	Joback Method
rinpol	1783.00		NIST Webbook
rinpol	1783.00		NIST Webbook
tb	691.95	K	Joback Method
tc	874.06	K	Joback Method
tf	405.55	K	Joback Method
vc	0.912	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	679.64	J/molxK	691.95	Joback Method
cpg	696.12	J/molxK	722.30	Joback Method
cpg	711.75	J/molxK	752.65	Joback Method
cpg	726.55	J/molxK	783.00	Joback Method
cpg	740.53	J/molxK	813.36	Joback Method
cpg	753.71	J/molxK	843.71	Joback Method
cpg	766.12	J/molxK	874.06	Joback Method
dvisc	0.0014014	Paxs	405.55	Joback Method

dvisc	0.0006952	Paxs	453.28	Joback Method
dvisc	0.0003941	Paxs	501.02	Joback Method
dvisc	0.0002466	Paxs	548.75	Joback Method
dvisc	0.0001664	Paxs	596.48	Joback Method
dvisc	0.0001190	Paxs	644.22	Joback Method
dvisc	0.0000891	Paxs	691.95	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=U358342&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358342&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>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

Latest version available from:

<https://www.chemeo.com/cid/63-045-2/Glutaric-acid-neopentyl-pentyl-ester.pdf>

Generated by Cheméo on 2024-04-23 06:21:45.991207121 +0000 UTC m=+16142554.911784433.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.