

# Glutaric acid, 3-methylbut-3-enyl pentyl ester

<b>Inchi:</b>	InChI=1S/C15H26O4/c1-4-5-6-11-18-14(16)8-7-9-15(17)19-12-10-13(2)3/h2,4-12H2,1,3H
<b>InchiKey:</b>	RWFBFMZXQWZXSZ-UHFFFAOYSA-N
<b>Formula:</b>	C15H26O4
<b>SMILES:</b>	<chem>C=C(C)CCOC(=O)CCCC(=O)OCCCCC</chem>
<b>Mol. weight [g/mol]:</b>	270.36

## Physical Properties

Property code	Value	Unit	Source
gf	-313.13	kJ/mol	Joback Method
hf	-726.89	kJ/mol	Joback Method
hfus	37.59	kJ/mol	Joback Method
hvap	66.71	kJ/mol	Joback Method
log10ws	-3.68		Crippen Method
logp	3.399		Crippen Method
mcvol	232.790	ml/mol	McGowan Method
pc	1575.95	kPa	Joback Method
rinpola	1886.00		NIST Webbook
rinpola	1886.00		NIST Webbook
tb	691.74	K	Joback Method
tc	871.40	K	Joback Method
tf	387.41	K	Joback Method
vc	0.905	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	653.06	J/mol×K	691.74	Joback Method
cpg	668.81	J/mol×K	721.68	Joback Method
cpg	683.78	J/mol×K	751.63	Joback Method
cpg	697.99	J/mol×K	781.57	Joback Method
cpg	711.44	J/mol×K	811.52	Joback Method
cpg	724.15	J/mol×K	841.46	Joback Method
cpg	736.13	J/mol×K	871.40	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=U359944&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359944&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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.cheméo.com/cid/57-808-2/Glutaric-acid-3-methylbut-3-enyl-pentyl-ester.pdf>

Generated by Cheméo on 2024-04-26 03:16:21.001500192 +0000 UTC m=+16390629.922077523.

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