

# Glutaric acid, 2,2,3,3,4,4,5,5-octafluoropentyl hept-4-yl ester

<b>Inchi:</b>	InChI=1S/C17H24F8O4/c1-3-6-11(7-4-2)29-13(27)9-5-8-12(26)28-10-15(20,21)17(24,25)
<b>InchiKey:</b>	ZQLSEECGPVETGM-UHFFFAOYSA-N
<b>Formula:</b>	C17H24F8O4
<b>SMILES:</b>	CCCC(CCC)OC(=O)CCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	444.36

## Physical Properties

Property code	Value	Unit	Source
gf	-1930.42	kJ/mol	Joback Method
hf	-2489.50	kJ/mol	Joback Method
hfus	40.71	kJ/mol	Joback Method
hvap	60.55	kJ/mol	Joback Method
log10ws	-6.03		Crippen Method
logp	5.383		Crippen Method
mcvol	279.430	ml/mol	McGowan Method
pc	1078.51	kPa	Joback Method
rinpola	1702.00		NIST Webbook
rinpola	1702.00		NIST Webbook
tb	724.53	K	Joback Method
tc	889.95	K	Joback Method
tf	407.65	K	Joback Method
vc	1.135	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	859.45	J/molxK	724.53	Joback Method
cpg	874.24	J/molxK	752.10	Joback Method
cpg	888.18	J/molxK	779.67	Joback Method
cpg	901.29	J/molxK	807.24	Joback Method
cpg	913.62	J/molxK	834.81	Joback Method
cpg	925.21	J/molxK	862.38	Joback Method
cpg	936.11	J/molxK	889.95	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U392509&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392509&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>
<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>

# 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.chemeo.com/cid/121-812-5/Glutaric-acid-2-2-3-3-4-4-5-5-octafluoropentyl-hept-4-yl-ester.pdf>

Generated by Cheméo on 2024-04-28 23:18:18.39789203 +0000 UTC m=+16635547.318469343.

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