

# Glutaric acid, 2,2,3,3-tetrafluoropropyl 2-ethylcyclohexyl ester

<b>Inchi:</b>	InChI=1S/C16H24F4O4/c1-2-11-6-3-4-7-12(11)24-14(22)9-5-8-13(21)23-10-16(19,20)15
<b>InchiKey:</b>	UXPYQKPUUIGQOB-UHFFFAOYSA-N
<b>Formula:</b>	C16H24F4O4
<b>SMILES:</b>	CCC1CCCCC1OC(=O)CCCC(=O)OCC(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	356.35

## Physical Properties

Property code	Value	Unit	Source
gf	-1146.10	kJ/mol	Joback Method
hf	-1627.66	kJ/mol	Joback Method
hfus	37.06	kJ/mol	Joback Method
hvap	64.69	kJ/mol	Joback Method
log10ws	-4.64		Crippen Method
logp	4.112		Crippen Method
mcvol	247.400	ml/mol	McGowan Method
pc	1431.55	kPa	Joback Method
rinpol	1794.00		NIST Webbook
rinpol	1794.00		NIST Webbook
tb	726.35	K	Joback Method
tc	908.76	K	Joback Method
tf	407.32	K	Joback Method
vc	0.967	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	764.65	J/mol×K	726.35	Joback Method
cpg	781.65	J/mol×K	756.75	Joback Method
cpg	797.61	J/mol×K	787.15	Joback Method
cpg	812.55	J/mol×K	817.55	Joback Method
cpg	826.48	J/mol×K	847.96	Joback Method
cpg	839.43	J/mol×K	878.36	Joback Method
cpg	851.42	J/mol×K	908.76	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U405476&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405476&amp;Units=SI</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

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