

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

Inchi:	InChI=1S/C16H26F4O4/c1-3-5-7-12(4-2)10-23-13(21)8-6-9-14(22)24-11-16(19,20)15(17)
InchiKey:	HZUWCTTXCZZCLM-UHFFFAOYSA-N
Formula:	C16H26F4O4
SMILES:	CCCCC(CC)COC(=O)CCCC(=O)OCC(F)(F)C(F)F
Mol. weight [g/mol]:	358.37

## Physical Properties

Property code	Value	Unit	Source
gf	-1165.28	kJ/mol	Joback Method
hf	-1666.92	kJ/mol	Joback Method
hfus	40.63	kJ/mol	Joback Method
hvap	64.18	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	4.360		Crippen Method
mcvol	258.260	ml/mol	McGowan Method
pc	1269.16	kPa	Joback Method
rinpola	1762.00		NIST Webbook
rinpola	1762.00		NIST Webbook
tb	711.03	K	Joback Method
tc	879.36	K	Joback Method
tf	389.18	K	Joback Method
vc	1.028	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	767.73	J/molxK	711.03	Joback Method
cpg	783.15	J/molxK	739.08	Joback Method
cpg	797.76	J/molxK	767.14	Joback Method
cpg	811.60	J/molxK	795.19	Joback Method
cpg	824.66	J/molxK	823.25	Joback Method
cpg	836.99	J/molxK	851.30	Joback Method
cpg	848.59	J/molxK	879.36	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391461&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391461&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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