

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

**Inchi:** InChI=1S/C15H22F4O4/c16-14(17)15(18,19)10-23-13(21)8-4-7-12(20)22-9-11-5-2-1-3-6  
**InchiKey:** DYAVSACZYUFVCS-UHFFFAOYSA-N  
**Formula:** C15H22F4O4  
**SMILES:** O=C(CCCC(=O)OCC(F)(F)C(F)F)OCC1CCCCC1  
**Mol. weight [g/mol]:** 342.33

## Physical Properties

Property code	Value	Unit	Source
gf	-1146.81	kJ/mol	Joback Method
hf	-1586.68	kJ/mol	Joback Method
hfus	33.40	kJ/mol	Joback Method
hvap	62.77	kJ/mol	Joback Method
log10ws	-4.11		Crippen Method
logp	3.724		Crippen Method
mvol	233.310	ml/mol	McGowan Method
pc	1582.23	kPa	Joback Method
rinpol	1804.00		NIST Webbook
rinpol	1804.00		NIST Webbook
tb	708.14	K	Joback Method
tc	891.08	K	Joback Method
tf	400.29	K	Joback Method
vc	0.911	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	705.69	J/mol×K	708.14	Joback Method
cpg	722.03	J/mol×K	738.63	Joback Method
cpg	737.37	J/mol×K	769.12	Joback Method
cpg	751.73	J/mol×K	799.61	Joback Method
cpg	765.14	J/mol×K	830.10	Joback Method
cpg	777.63	J/mol×K	860.59	Joback Method
cpg	789.21	J/mol×K	891.08	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393662&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393662&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

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