

# Glutaric acid, (cyclohex-3-enyl)methyl 2,2,3,3-tetrafluoropropyl ester

**Inchi:** InChI=1S/C15H20F4O4/c16-14(17)15(18,19)10-23-13(21)8-4-7-12(20)22-9-11-5-2-1-3-6  
**InchiKey:** HWCBGHUGMQPIGP-UHFFFAOYSA-N  
**Formula:** C15H20F4O4  
**SMILES:** O=C(CCCC(=O)OCC(F)(F)C(F)F)OCC1CC=CCC1  
**Mol. weight [g/mol]:** 340.31

## Physical Properties

Property code	Value	Unit	Source
gf	-1116.85	kJ/mol	Joback Method
hf	-1528.90	kJ/mol	Joback Method
hfus	34.62	kJ/mol	Joback Method
hvap	63.07	kJ/mol	Joback Method
log10ws	-3.96		Crippen Method
logp	3.500		Crippen Method
mcvol	229.010	ml/mol	McGowan Method
pc	1628.54	kPa	Joback Method
rinpol	1826.00		NIST Webbook
rinpol	1826.00		NIST Webbook
tb	707.30	K	Joback Method
tc	891.24	K	Joback Method
tf	401.05	K	Joback Method
vc	0.897	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	681.25	J/mol×K	707.30	Joback Method
cpg	696.75	J/mol×K	737.96	Joback Method
cpg	711.28	J/mol×K	768.61	Joback Method
cpg	724.86	J/mol×K	799.27	Joback Method
cpg	737.53	J/mol×K	829.93	Joback Method
cpg	749.31	J/mol×K	860.59	Joback Method
cpg	760.22	J/mol×K	891.24	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.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=U405521&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405521&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>hvap:</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>rinpola:</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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