

# Glutaric acid, hept-2-yl 2,2,3,3,3-pentafluoropropyl ester

<b>Inchi:</b>	InChI=1S/C15H23F5O4/c1-3-4-5-7-11(2)24-13(22)9-6-8-12(21)23-10-14(16,17)15(18,19
<b>InchiKey:</b>	QGNGGVORWKOZGN-UHFFFAOYSA-N
<b>Formula:</b>	C15H23F5O4
<b>SMILES:</b>	CCCCC(C)OC(=O)CCCC(=O)OCC(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	362.33

## Physical Properties

Property code	Value	Unit	Source
gf	-1363.23	kJ/mol	Joback Method
hf	-1845.86	kJ/mol	Joback Method
hfus	37.23	kJ/mol	Joback Method
hvap	60.23	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	4.409		Crippen Method
mvol	245.940	ml/mol	McGowan Method
pc	1327.14	kPa	Joback Method
rinpol	1504.00		NIST Webbook
rinpol	1504.00		NIST Webbook
tb	684.63	K	Joback Method
tc	850.37	K	Joback Method
tf	395.92	K	Joback Method
vc	0.986	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	721.80	J/molxK	684.63	Joback Method
cpg	736.39	J/molxK	712.25	Joback Method
cpg	750.21	J/molxK	739.88	Joback Method
cpg	763.27	J/molxK	767.50	Joback Method
cpg	775.61	J/molxK	795.12	Joback Method
cpg	787.25	J/molxK	822.74	Joback Method
cpg	798.21	J/molxK	850.37	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=U393671&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393671&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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