

# Glutaric acid, myrtenyl 2,2,3,3,4,4,5,5-octafluoropentyl ester

**Inchi:** InChI=1S/C20H24F8O4/c1-17(2)12-7-6-11(13(17)8-12)9-31-14(29)4-3-5-15(30)32-10-18  
**InchiKey:** YCFUTGQQEHECGB-UHFFFAOYSA-N  
**Formula:** C20H24F8O4  
**SMILES:** CC1(C)C2CC=C(COC(=O)CCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C1C2  
**Mol. weight [g/mol]:** 480.39

## Physical Properties

Property code	Value	Unit	Source
gf	-1786.19	kJ/mol	Joback Method
hf	-2365.49	kJ/mol	Joback Method
hfus	41.78	kJ/mol	Joback Method
hvap	67.11	kJ/mol	Joback Method
log10ws	-6.09		Crippen Method
logp	5.407		Crippen Method
mcvol	295.680	ml/mol	McGowan Method
pc	1094.27	kPa	Joback Method
rinpol	2059.00		NIST Webbook
rinpol	2059.00		NIST Webbook
tb	811.07	K	Joback Method
tc	996.51	K	Joback Method
tf	521.76	K	Joback Method
vc	1.198	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	975.71	J/molxK	811.07	Joback Method
cpg	991.81	J/molxK	841.98	Joback Method
cpg	1007.36	J/molxK	872.88	Joback Method
cpg	1022.51	J/molxK	903.79	Joback Method
cpg	1037.40	J/molxK	934.70	Joback Method
cpg	1052.16	J/molxK	965.60	Joback Method
cpg	1066.92	J/molxK	996.51	Joback Method

# Sources

<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=U405537&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405537&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>
<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>

# 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>h vap:</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>r in pol:</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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