

# Glutaric acid, 2-methylhex-3-yl 1-(pentafluorophenyl)ethyl ester

<b>Inchi:</b>	InChI=1S/C20H25F5O4/c1-5-7-12(10(2)3)29-14(27)9-6-8-13(26)28-11(4)15-16(21)18(23)
<b>InchiKey:</b>	IKIZOJQVHHHMPO-UHFFFAOYSA-N
<b>Formula:</b>	C20H25F5O4
<b>SMILES:</b>	CCCC(OC(=O)CCCC(=O)OC(C)c1c(F)c(F)c(F)c(F)c1F)C(C)C
<b>Mol. weight [g/mol]:</b>	424.40

## Physical Properties

Property code	Value	Unit	Source
gf	-1267.43	kJ/mol	Joback Method
hf	-1762.94	kJ/mol	Joback Method
hfus	50.06	kJ/mol	Joback Method
hvap	78.76	kJ/mol	Joback Method
log10ws	-7.01		Crippen Method
logp	5.524		Crippen Method
mcvol	292.630	ml/mol	McGowan Method
pc	1117.81	kPa	Joback Method
rinpol	2080.00		NIST Webbook
rinpol	2080.00		NIST Webbook
tb	856.19	K	Joback Method
tc	1049.49	K	Joback Method
tf	506.45	K	Joback Method
vc	1.167	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	913.18	J/molxK	856.19	Joback Method
cpg	927.65	J/molxK	888.41	Joback Method
cpg	941.03	J/molxK	920.62	Joback Method
cpg	953.34	J/molxK	952.84	Joback Method
cpg	964.58	J/molxK	985.06	Joback Method
cpg	974.75	J/molxK	1017.27	Joback Method
cpg	983.85	J/molxK	1049.49	Joback Method

# Sources

<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=U376999&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376999&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>

# 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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