

# Glutaric acid, ethyl pentafluorophenyl ester

<b>Inchi:</b>	InChI=1S/C13H11F5O4/c1-2-21-6(19)4-3-5-7(20)22-13-11(17)9(15)8(14)10(16)12(13)18
<b>InchiKey:</b>	ZDRSJTSTLYWMD-UHFFFAOYSA-N
<b>Formula:</b>	C13H11F5O4
<b>SMILES:</b>	CCOC(=O)CCCC(=O)Oc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	326.22

## Physical Properties

Property code	Value	Unit	Source
gf	-1319.05	kJ/mol	Joback Method
hf	-1602.62	kJ/mol	Joback Method
hfus	42.50	kJ/mol	Joback Method
hvap	64.34	kJ/mol	Joback Method
log10ws	-4.40		Crippen Method
logp	3.021		Crippen Method
mcvol	194.000	ml/mol	McGowan Method
pc	1821.61	kPa	Joback Method
rinpola	1602.00		NIST Webbook
tb	697.35	K	Joback Method
tc	875.33	K	Joback Method
tf	472.56	K	Joback Method
vc	0.793	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	523.24	J/molxK	697.35	Joback Method
cpg	534.14	J/molxK	727.01	Joback Method
cpg	544.47	J/molxK	756.68	Joback Method
cpg	554.22	J/molxK	786.34	Joback Method
cpg	563.39	J/molxK	816.00	Joback Method
cpg	571.97	J/molxK	845.67	Joback Method
cpg	579.94	J/molxK	875.33	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=U359064&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359064&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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

Latest version available from:

<https://www.chemeo.com/cid/43-626-9/Glutaric-acid-ethyl-pentafluorophenyl-ester.pdf>

Generated by Cheméo on 2024-04-25 14:57:31.052750635 +0000 UTC m=+16346299.973327946.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.