

# Glutaric acid, 2,2,3,3-tetrafluoropropyl 2-propylphenyl ester

<b>Inchi:</b>	InChI=1S/C17H20F4O4/c1-2-6-12-7-3-4-8-13(12)25-15(23)10-5-9-14(22)24-11-17(20,21
<b>InchiKey:</b>	KLRUCHLGUTUIEU-UHFFFAOYSA-N
<b>Formula:</b>	C17H20F4O4
<b>SMILES:</b>	CCCc1ccccc1OC(=O)CCCC(=O)OCC(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	364.33

## Physical Properties

Property code	Value	Unit	Source
gf	-1051.64	kJ/mol	Joback Method
hf	-1457.22	kJ/mol	Joback Method
hfus	40.39	kJ/mol	Joback Method
hvap	69.73	kJ/mol	Joback Method
log10ws	-5.01		Crippen Method
logp	4.158		Crippen Method
mvol	248.590	ml/mol	McGowan Method
pc	1485.00	kPa	Joback Method
rinpol	1938.00		NIST Webbook
rinpol	1938.00		NIST Webbook
tb	766.01	K	Joback Method
tc	953.66	K	Joback Method
tf	454.39	K	Joback Method
vc	0.983	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	737.41	J/mol×K	766.01	Joback Method
cpg	751.27	J/mol×K	797.28	Joback Method
cpg	764.21	J/mol×K	828.56	Joback Method
cpg	776.26	J/mol×K	859.83	Joback Method
cpg	787.45	J/mol×K	891.11	Joback Method
cpg	797.82	J/mol×K	922.38	Joback Method
cpg	807.38	J/mol×K	953.66	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=U392135&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392135&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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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