

# Glutaric acid, 2-methylhex-3-yl 2,3,4,5-tetrafluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C19H24F4O4/c1-4-6-14(11(2)3)27-16(25)8-5-7-15(24)26-10-12-9-13(20)18(22)
<b>InchiKey:</b>	ZABYUAYNEIVWQO-UHFFFAOYSA-N
<b>Formula:</b>	C19H24F4O4
<b>SMILES:</b>	CCCC(OC(=O)CCCC(=O)OCc1cc(F)c(F)c(F)c1F)C(C)C
<b>Mol. weight [g/mol]:</b>	392.39

## Physical Properties

Property code	Value	Unit	Source
gf	-1068.97	kJ/mol	Joback Method
hf	-1529.44	kJ/mol	Joback Method
hfus	48.30	kJ/mol	Joback Method
hvap	77.08	kJ/mol	Joback Method
log10ws	-6.30		Crippen Method
logp	4.824		Crippen Method
mcvol	276.770	ml/mol	McGowan Method
pc	1237.22	kPa	Joback Method
rinpol	2192.00		NIST Webbook
rinpol	2192.00		NIST Webbook
tb	829.50	K	Joback Method
tc	1020.08	K	Joback Method
tf	497.07	K	Joback Method
vc	1.099	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	847.73	J/mol×K	829.50	Joback Method
cpg	862.11	J/mol×K	861.26	Joback Method
cpg	875.49	J/mol×K	893.03	Joback Method
cpg	887.87	J/mol×K	924.79	Joback Method
cpg	899.27	J/mol×K	956.55	Joback Method
cpg	909.68	J/mol×K	988.32	Joback Method
cpg	919.12	J/mol×K	1020.08	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377443&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377443&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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