

# Glutaric acid, naphth-2-ylmethyl 4-fluoro-2-methoxyphenyl ester

Inchi:	InChI=1S/C23H21FO5/c1-27-21-14-19(24)11-12-20(21)29-23(26)8-4-7-22(25)28-15-16-9
InchiKey:	FUAMMMQROHURBX-UHFFFAOYSA-N
Formula:	C23H21FO5
SMILES:	COc1cc(F)ccc1OC(=O)CCCC(=O)OCc1ccc2ccccc2c1
Mol. weight [g/mol]:	396.41

## Physical Properties

Property code	Value	Unit	Source
gf	-322.29	kJ/mol	Joback Method
hf	-706.26	kJ/mol	Joback Method
hfus	49.10	kJ/mol	Joback Method
hvap	94.88	kJ/mol	Joback Method
log10ws	-6.69		Crippen Method
logp	4.807		Crippen Method
mvol	290.470	ml/mol	McGowan Method
pc	1557.35	kPa	Joback Method
rinpol	3210.00		NIST Webbook
rinpol	3210.00		NIST Webbook
tb	987.19	K	Joback Method
tc	1220.03	K	Joback Method
tf	639.21	K	Joback Method
vc	1.113	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	905.64	J/mol×K	987.19	Joback Method
cpg	917.11	J/mol×K	1026.00	Joback Method
cpg	927.28	J/mol×K	1064.80	Joback Method
cpg	936.20	J/mol×K	1103.61	Joback Method
cpg	943.92	J/mol×K	1142.42	Joback Method
cpg	950.50	J/mol×K	1181.23	Joback Method
cpg	955.97	J/mol×K	1220.03	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=U393570&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393570&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>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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