

# Glutaric acid, 2-fluorophenyl 1-naphthyl ester

**Inchi:** InChI=1S/C21H17FO4/c22-17-10-3-4-11-19(17)26-21(24)14-6-13-20(23)25-18-12-5-8-15  
**InchiKey:** BMCJBOVHUOYDDL-UHFFFAOYSA-N  
**Formula:** C21H17FO4  
**SMILES:** O=C(CCCC(=O)Oc1cccc2ccccc12)Oc1cccc1F  
**Mol. weight [g/mol]:** 352.36

## Physical Properties

Property code	Value	Unit	Source
gf	-224.50	kJ/mol	Joback Method
hf	-521.29	kJ/mol	Joback Method
hfus	43.12	kJ/mol	Joback Method
hvap	87.35	kJ/mol	Joback Method
log10ws	-6.30		Crippen Method
logp	4.660		Crippen Method
mcvol	256.420	ml/mol	McGowan Method
pc	1874.03	kPa	Joback Method
rinpol	2930.00		NIST Webbook
rinpol	2930.00		NIST Webbook
tb	914.03	K	Joback Method
tc	1147.93	K	Joback Method
tf	581.92	K	Joback Method
vc	0.984	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	765.64	J/mol×K	914.03	Joback Method
cpg	777.79	J/mol×K	953.01	Joback Method
cpg	788.80	J/mol×K	992.00	Joback Method
cpg	798.76	J/mol×K	1030.98	Joback Method
cpg	807.73	J/mol×K	1069.96	Joback Method
cpg	815.78	J/mol×K	1108.95	Joback Method
cpg	822.98	J/mol×K	1147.93	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393335&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393335&amp;Units=SI</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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