

# Glutaric acid, 2-fluorophenyl 3-nitrobenzyl ester

<b>Inchi:</b>	InChI=1S/C18H16FNO6/c19-15-7-1-2-8-16(15)26-18(22)10-4-9-17(21)25-12-13-5-3-6-14
<b>InchiKey:</b>	FNBBSSTYTXOSTI-UHFFFAOYSA-N
<b>Formula:</b>	C18H16FNO6
<b>SMILES:</b>	O=C(CCCC(=O)Oc1ccccc1F)OCc1cccc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	361.32

## Physical Properties

Property code	Value	Unit	Source
gf	-320.86	kJ/mol	Joback Method
hf	-661.20	kJ/mol	Joback Method
hfus	49.69	kJ/mol	Joback Method
hvap	95.62	kJ/mol	Joback Method
log10ws	-5.41		Crippen Method
logp	3.553		Crippen Method
mcvol	251.030	ml/mol	McGowan Method
pc	1966.56	kPa	Joback Method
rinpola	2885.00		NIST Webbook
rinpola	2885.00		NIST Webbook
tb	978.25	K	Joback Method
tc	1219.04	K	Joback Method
tf	659.02	K	Joback Method
vc	0.976	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	767.90	J/mol×K	978.25	Joback Method
cpg	777.32	J/mol×K	1018.38	Joback Method
cpg	785.43	J/mol×K	1058.51	Joback Method
cpg	792.26	J/mol×K	1098.64	Joback Method
cpg	797.86	J/mol×K	1138.77	Joback Method
cpg	802.26	J/mol×K	1178.91	Joback Method
cpg	805.51	J/mol×K	1219.04	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393356&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393356&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.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>

# 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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