

# Terephthalic acid, isobutyl 2-fluoro-5-nitrobenzyl ester

<b>Inchi:</b>	InChI=1S/C19H18FNO6/c1-12(2)10-26-18(22)13-3-5-14(6-4-13)19(23)27-11-15-9-16(21)
<b>InchiKey:</b>	CPJTWJZKEZCMRD-UHFFFAOYSA-N
<b>Formula:</b>	C19H18FNO6
<b>SMILES:</b>	CC(C)COC(=O)c1ccc(C(=O)OCc2cc([N+](=O)[O-])ccc2F)cc1
<b>Mol. weight [g/mol]:</b>	375.35

## Physical Properties

Property code	Value	Unit	Source
gf	-324.51	kJ/mol	Joback Method
hf	-698.59	kJ/mol	Joback Method
hfus	48.37	kJ/mol	Joback Method
hvap	98.12	kJ/mol	Joback Method
log10ws	-6.06		Crippen Method
logp	3.904		Crippen Method
mvol	265.120	ml/mol	McGowan Method
pc	1798.51	kPa	Joback Method
rinpol	2944.00		NIST Webbook
rinpol	2944.00		NIST Webbook
tb	1005.67	K	Joback Method
tc	1248.66	K	Joback Method
tf	667.81	K	Joback Method
vc	1.026	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	823.68	J/mol×K	1005.67	Joback Method
cpg	833.01	J/mol×K	1046.17	Joback Method
cpg	840.92	J/mol×K	1086.67	Joback Method
cpg	847.44	J/mol×K	1127.16	Joback Method
cpg	852.62	J/mol×K	1167.66	Joback Method
cpg	856.49	J/mol×K	1208.16	Joback Method
cpg	859.08	J/mol×K	1248.66	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=U416128&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416128&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>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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