

# Isophthalic acid, 2-bromo-4-fluorophenyl heptyl ester

<b>Inchi:</b>	InChI=1S/C21H22BrFO4/c1-2-3-4-5-6-12-26-20(24)15-8-7-9-16(13-15)21(25)27-19-11-10
<b>InchiKey:</b>	KDEINSDNIWUAEG-UHFFFAOYSA-N
<b>Formula:</b>	C21H22BrFO4
<b>SMILES:</b>	CCCCCCCOC(=O)c1cccc(C(=O)Oc2ccc(F)cc2Br)c1
<b>Mol. weight [g/mol]:</b>	437.30

## Physical Properties

Property code	Value	Unit	Source
gf	-326.46	kJ/mol	Joback Method
hf	-697.50	kJ/mol	Joback Method
hfus	51.00	kJ/mol	Joback Method
hvap	92.81	kJ/mol	Joback Method
log10ws	-7.81		Crippen Method
logp	5.935		Crippen Method
mvol	293.380	ml/mol	McGowan Method
pc	1598.72	kPa	Joback Method
rinpol	2992.00		NIST Webbook
rinpol	2992.00		NIST Webbook
tb	966.19	K	Joback Method
tc	1195.30	K	Joback Method
tf	621.54	K	Joback Method
vc	1.123	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	877.29	J/mol×K	966.19	Joback Method
cpg	889.03	J/mol×K	1004.38	Joback Method
cpg	899.52	J/mol×K	1042.56	Joback Method
cpg	908.82	J/mol×K	1080.75	Joback Method
cpg	916.96	J/mol×K	1118.93	Joback Method
cpg	923.98	J/mol×K	1157.12	Joback Method
cpg	929.94	J/mol×K	1195.30	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=U344400&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344400&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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