

# Phthalic acid, 2-bromo-5-fluorobenzyl ethyl ester

Inchi:	InChI=1S/C17H14BrFO4/c1-2-22-16(20)13-5-3-4-6-14(13)17(21)23-10-11-9-12(19)7-8-1
InchiKey:	DZYCRBUFYPGYLT-UHFFFAOYSA-N
Formula:	C17H14BrFO4
SMILES:	CCOC(=O)c1ccccc1C(=O)OCc1cc(F)ccc1Br
Mol. weight [g/mol]:	381.19

## Physical Properties

Property code	Value	Unit	Source
gf	-360.14	kJ/mol	Joback Method
hf	-614.94	kJ/mol	Joback Method
hfus	40.64	kJ/mol	Joback Method
hvap	83.90	kJ/mol	Joback Method
log10ws	-5.98		Crippen Method
logp	4.122		Crippen Method
mcvol	237.020	ml/mol	McGowan Method
pc	2231.30	kPa	Joback Method
rinpol	2796.00		NIST Webbook
rinpol	2796.00		NIST Webbook
tb	874.67	K	Joback Method
tc	1109.03	K	Joback Method
tf	576.46	K	Joback Method
vc	0.899	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	649.74	J/molxK	874.67	Joback Method
cpg	660.85	J/molxK	913.73	Joback Method
cpg	670.81	J/molxK	952.79	Joback Method
cpg	679.67	J/molxK	991.85	Joback Method
cpg	687.45	J/molxK	1030.91	Joback Method
cpg	694.17	J/molxK	1069.97	Joback Method
cpg	699.87	J/molxK	1109.03	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=U382504&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382504&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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