

# 3-Phenylpropionic acid, 2-bromo-4-fluorophenyl ester

Inchi:	InChI=1S/C15H12BrFO2/c16-13-10-12(17)7-8-14(13)19-15(18)9-6-11-4-2-1-3-5-11/h1-5
InchiKey:	SVZVYAAOCLXEJA-UHFFFAOYSA-N
Formula:	C15H12BrFO2
SMILES:	O=C(CCc1ccccc1)Oc1ccc(F)cc1Br
Mol. weight [g/mol]:	323.16

## Physical Properties

Property code	Value	Unit	Source
gf	-133.43	kJ/mol	Joback Method
hf	-317.39	kJ/mol	Joback Method
hfus	33.06	kJ/mol	Joback Method
hvap	69.63	kJ/mol	Joback Method
log10ws	-5.31		Crippen Method
logp	4.126		Crippen Method
mcvol	201.400	ml/mol	McGowan Method
pc	2613.74	kPa	Joback Method
rinpola	2008.00		NIST Webbook
rinpola	2008.00		NIST Webbook
tb	747.64	K	Joback Method
tc	986.46	K	Joback Method
tf	469.24	K	Joback Method
vc	0.763	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	508.66	J/molxK	747.64	Joback Method
cpg	521.57	J/molxK	787.44	Joback Method
cpg	533.41	J/molxK	827.25	Joback Method
cpg	544.23	J/molxK	867.05	Joback Method
cpg	554.09	J/molxK	906.85	Joback Method
cpg	563.05	J/molxK	946.66	Joback Method
cpg	571.15	J/molxK	986.46	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U299023&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299023&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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