

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

Inchi:	InChI=1S/C20H20BrFO4/c1-2-3-6-11-25-19(23)16-7-4-5-8-17(16)20(24)26-13-14-12-15(
InchiKey:	VWWUHDGQVKBZFM-UHFFFAOYSA-N
Formula:	C20H20BrFO4
SMILES:	CCCCCOC(=O)c1cccc1C(=O)OCc1cc(F)ccc1Br
Mol. weight [g/mol]:	423.27

## Physical Properties

Property code	Value	Unit	Source
gf	-334.88	kJ/mol	Joback Method
hf	-676.86	kJ/mol	Joback Method
hfus	48.41	kJ/mol	Joback Method
hvap	90.58	kJ/mol	Joback Method
log10ws	-7.24		Crippen Method
logp	5.292		Crippen Method
mcvol	279.290	ml/mol	McGowan Method
pc	1728.90	kPa	Joback Method
rinpola	3095.00		NIST Webbook
rinpola	3095.00		NIST Webbook
tb	943.31	K	Joback Method
tc	1172.56	K	Joback Method
tf	610.27	K	Joback Method
vc	1.067	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	819.36	J/molxK	943.31	Joback Method
cpg	830.97	J/molxK	981.52	Joback Method
cpg	841.38	J/molxK	1019.73	Joback Method
cpg	850.61	J/molxK	1057.94	Joback Method
cpg	858.70	J/molxK	1096.15	Joback Method
cpg	865.70	J/molxK	1134.35	Joback Method
cpg	871.64	J/molxK	1172.56	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382508&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382508&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>hvpap:</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>rinppl:</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

Latest version available from:

<https://www.chemeo.com/cid/115-346-0/Phthalic-acid-2-bromo-5-fluorobenzyl-pentyl-ester.pdf>

Generated by Cheméo on 2024-04-28 17:42:09.360426698 +0000 UTC m=+16615378.281004013.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.