

# Phthalic acid, di(2-bromo-5-fluorobenzyl) ester

**Inchi:** InChI=1S/C22H14Br2F2O4/c23-19-7-5-15(25)9-13(19)11-29-21(27)17-3-1-2-4-18(17)22  
**InchiKey:** HECCMPHLKXORFU-UHFFFAOYSA-N  
**Formula:** C22H14Br2F2O4  
**SMILES:** O=C(OCc1cc(F)ccc1Br)c1ccccc1C(=O)OCc1cc(F)ccc1Br  
**Mol. weight [g/mol]:** 540.15

## Physical Properties

Property code	Value	Unit	Source
gf	-405.38	kJ/mol	Joback Method
hf	-674.33	kJ/mol	Joback Method
hfus	55.22	kJ/mol	Joback Method
hvap	104.25	kJ/mol	Joback Method
log10ws	-9.17		Crippen Method
logp	6.204		Crippen Method
mcvol	302.980	ml/mol	McGowan Method
pc	1937.24	kPa	Joback Method
rinpol	3662.00		NIST Webbook
tb	1091.14	K	Joback Method
tc	1349.21	K	Joback Method
tf	744.66	K	Joback Method
vc	1.151	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	850.12	J/molxK	1091.14	Joback Method
cpg	857.18	J/molxK	1134.15	Joback Method
cpg	863.06	J/molxK	1177.16	Joback Method
cpg	867.81	J/molxK	1220.18	Joback Method
cpg	871.51	J/molxK	1263.19	Joback Method
cpg	874.25	J/molxK	1306.20	Joback Method
cpg	876.08	J/molxK	1349.21	Joback Method

# Sources

<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=U382518&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382518&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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