

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

<b>Inchi:</b>	InChI=1S/C28H36BrFO4/c1-2-3-4-5-6-7-8-9-10-11-14-19-33-27(31)24-15-12-13-16-25(2
<b>InchiKey:</b>	OIQITNGGQNQCAE-UHFFFAOYSA-N
<b>Formula:</b>	C28H36BrFO4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1cc(F)ccc1Br
<b>Mol. weight [g/mol]:</b>	535.49

## Physical Properties

Property code	Value	Unit	Source
gf	-267.52	kJ/mol	Joback Method
hf	-841.98	kJ/mol	Joback Method
hfus	69.13	kJ/mol	Joback Method
hvap	108.39	kJ/mol	Joback Method
log10ws	-10.58		Crippen Method
logp	8.413		Crippen Method
mcvol	392.010	ml/mol	McGowan Method
pc	993.25	kPa	Joback Method
rinsol	3896.00		NIST Webbook
tb	1126.35	K	Joback Method
tc	1381.70	K	Joback Method
tf	700.43	K	Joback Method
vc	1.516	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1296.99	J/mol×K	1126.35	Joback Method
cpg	1309.63	J/mol×K	1168.91	Joback Method
cpg	1320.63	J/mol×K	1211.47	Joback Method
cpg	1330.10	J/mol×K	1254.03	Joback Method
cpg	1338.12	J/mol×K	1296.58	Joback Method
cpg	1344.80	J/mol×K	1339.14	Joback Method
cpg	1350.24	J/mol×K	1381.70	Joback Method

# Sources

<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=U382516&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382516&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>hvap:</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>rinpola:</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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