

# Sebacic acid, 2-bromo-5-fluorobenzyl heptyl ester

Inchi:	InChI=1S/C24H36BrFO4/c1-2-3-4-9-12-17-29-23(27)13-10-7-5-6-8-11-14-24(28)30-19-2
InchiKey:	AUANCSFPXOYJIM-UHFFFAOYSA-N
Formula:	C24H36BrFO4
SMILES:	CCCCCCCOC(=O)CCCCCCCC(=O)OCc1cc(F)ccc1Br
Mol. weight [g/mol]:	487.44

## Physical Properties

Property code	Value	Unit	Source
gf	-403.98	kJ/mol	Joback Method
hf	-984.48	kJ/mol	Joback Method
hfus	65.12	kJ/mol	Joback Method
hvap	96.55	kJ/mol	Joback Method
log10ws	-8.69		Crippen Method
logp	7.266		Crippen Method
mvol	359.410	ml/mol	McGowan Method
pc	1037.23	kPa	Joback Method
rmpol	3099.00		NIST Webbook
rmpol	3099.00		NIST Webbook
tb	1003.17	K	Joback Method
tc	1228.58	K	Joback Method
tf	616.41	K	Joback Method
vc	1.399	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1165.43	J/molxK	1003.17	Joback Method
cpg	1180.55	J/molxK	1040.74	Joback Method
cpg	1194.27	J/molxK	1078.31	Joback Method
cpg	1206.62	J/molxK	1115.87	Joback Method
cpg	1217.65	J/molxK	1153.44	Joback Method
cpg	1227.43	J/molxK	1191.01	Joback Method
cpg	1236.00	J/molxK	1228.58	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=U380682&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380682&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>rlnpol:</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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