

# Fumaric acid, monoamide, N-(2-bromophenyl)-, pentafluorobenzyl ester

**Inchi:** InChI=1S/C17H9BrF5NO3/c18-9-3-1-2-4-10(9)24-11(25)5-6-12(26)27-7-8-13(19)15(21)1

**InchiKey:** MQVQSVSRYYMMRCP-AATRICKPKSA-N

**Formula:** C17H9BrF5NO3

**SMILES:** O=C(C=CC(=O)OCc1c(F)c(F)c(F)c(F)c1F)Nc1ccccc1Br

**Mol. weight [g/mol]:** 450.15

## Physical Properties

Property code	Value	Unit	Source
gf	-893.66	kJ/mol	Joback Method
hf	-1130.88	kJ/mol	Joback Method
hfus	55.91	kJ/mol	Joback Method
hvap	86.61	kJ/mol	Joback Method
log10ws	-6.58		Crippen Method
logp	4.383		Crippen Method
mvol	243.910	ml/mol	McGowan Method
pc	1957.87	kPa	Joback Method
rinpol	2714.00		NIST Webbook
rinpol	2714.00		NIST Webbook
tb	918.60	K	Joback Method
tc	1138.42	K	Joback Method
tf	641.73	K	Joback Method
vc	0.969	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	670.10	J/mol×K	918.60	Joback Method
cpg	678.80	J/mol×K	955.24	Joback Method
cpg	686.70	J/mol×K	991.87	Joback Method
cpg	693.85	J/mol×K	1028.51	Joback Method
cpg	700.27	J/mol×K	1065.15	Joback Method
cpg	706.02	J/mol×K	1101.79	Joback Method
cpg	711.13	J/mol×K	1138.42	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=U357451&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357451&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>h vap:</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>r in pol:</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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