

5-BROMO-3-NITROSALICYLALDEHYDE

Other names:	Salicylaldehyde, 5-bromo-3-nitro- 3-Nitro-5-bromosalicylaldehyde 5-Bromo-2-hydroxy-3-nitrobenzaldehyde 5-Bromo-3-nitrosalicylaldehyde
Inchi:	InChI=1S/C7H4BrNO4/c8-5-1-4(3-10)7(11)6(2-5)9(12)13/h1-3,11H
InchiKey:	YEYPSUQQZNDKDE-UHFFFAOYSA-N
Formula:	C7H4BrNO4
SMILES:	O=Cc1cc(Br)cc([N+](=O)[O-])c1O
Mol. weight [g/mol]:	246.02

Physical Properties

Property code	Value	Unit	Source
hfus	31.87	kJ/mol	Joback Method
log10ws	-3.16		Cheméo Relay (1.0)
logp	1.875		Crippen Method
mcvol	128.090	ml/mol	McGowan Method
tf	370.91	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	290.26	J/mol×K	743.48	Joback Method
cpg	296.88	J/mol×K	788.68	Joback Method
cpg	303.09	J/mol×K	833.89	Joback Method
cpg	308.99	J/mol×K	879.09	Joback Method
cpg	314.74	J/mol×K	924.30	Joback Method
cpg	320.46	J/mol×K	969.50	Joback Method
cpg	326.27	J/mol×K	1014.70	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C16634881&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

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