

Phenol, 4-bromo-2,6-dimethyl-

Other names:	4-Bromo-2,6-dimethylphenol 2,6-Xylenol, 4-bromo- 4-Bromo-2,6-xylenol
Inchi:	InChI=1S/C8H9BrO/c1-5-3-7(9)4-6(2)8(5)10/h3-4,10H,1-2H3
InchiKey:	ZLVFYUORUHNMBO-UHFFFAOYSA-N
Formula:	C8H9BrO
SMILES:	Cc1cc(Br)cc(C)c1O
Mol. weight [g/mol]:	201.06
CAS:	2374-05-2

Physical Properties

Property code	Value	Unit	Source
gf	-30.67	kJ/mol	Joback Method
hf	-145.84	kJ/mol	Joback Method
hfus	20.81	kJ/mol	Joback Method
hvap	56.45	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.772		Crippen Method
mcvol	123.190	ml/mol	McGowan Method
pc	4646.65	kPa	Joback Method
tb	565.86	K	Joback Method
tc	809.66	K	Joback Method
tf	402.90	K	Joback Method
vc	0.404	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.30	J/molxK	565.86	Joback Method
cpg	266.32	J/molxK	606.49	Joback Method
cpg	275.61	J/molxK	647.13	Joback Method
cpg	284.26	J/molxK	687.76	Joback Method
cpg	292.35	J/molxK	728.40	Joback Method
cpg	299.97	J/molxK	769.03	Joback Method

cpg	307.22	J/mol×K	809.66	Joback Method
dvisc	0.0008830	Paxs	402.90	Joback Method
dvisc	0.0004873	Paxs	430.06	Joback Method
dvisc	0.0002886	Paxs	457.22	Joback Method
dvisc	0.0001813	Paxs	484.38	Joback Method
dvisc	0.0001196	Paxs	511.54	Joback Method
dvisc	0.0000823	Paxs	538.70	Joback Method
dvisc	0.0000587	Paxs	565.86	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2374052&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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