Phenol, 2-bromo-4-phenyl-

Other names:	3-bromo[1,1'-biphenyl]-4-ol
	2-Bromo-4-phenylphenol
Inchi:	InChI=1S/C12H9BrO/c13-11-8-10(6-7-12(11)14)9-4-2-1-3-5-9/h1-8,14H
InchiKey:	DZGMMVYPLBTLRQ-UHFFFAOYSA-N
Formula:	C12H9BrO
SMILES:	Oc1ccc(-c2ccccc2)cc1Br
Mol. weight [g/mol]:	249.10
CAS:	92-03-5

Physical Properties

Property code	Value	Unit	Source
gf	125.05	kJ/mol	Joback Method
hf	19.60	kJ/mol	Joback Method
hfus	25.60	kJ/mol	Joback Method
hvap	66.97	kJ/mol	Joback Method
log10ws	-4.79		Crippen Method
logp	3.822		Crippen Method
mcvol	155.790	ml/mol	McGowan Method
pc	4414.96	kPa	Joback Method
tb	679.08	K	Joback Method
tc	952.61	K	Joback Method
tf	461.88	K	Joback Method
vc	0.519	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	420.84	J/mol×K	952.61	Joback Method
cpg	412.11	J/mol×K	907.02	Joback Method
cpg	403.09	J/mol×K	861.43	Joback Method
cpg	393.61	J/mol×K	815.84	Joback Method
cpg	383.48	J/mol×K	770.26	Joback Method
cpg	372.50	J/mol×K	724.67	Joback Method
cpg	360.51	J/mol×K	679.08	Joback Method

dvisc	0.0004118	Pa×s	461.88	Joback Method
dvisc	0.0000217	Pa×s	679.08	Joback Method
dvisc	0.0000308	Pa×s	642.88	Joback Method
dvisc	0.0000457	Pa×s	606.68	Joback Method
dvisc	0.0000713	Pa×s	570.48	Joback Method
dvisc	0.0001182	Pa×s	534.28	Joback Method
dvisc	0.0002109	Pa×s	498.08	Joback Method
hvapt	57.80	kJ/mol	478.50	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C92035&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
hvapt:	Enthalpy of vaporization at a given temperature
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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