

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	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

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

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

Latest version available from:

<https://www.chemeo.com/cid/85-254-6/Phenol-2-bromo-4-phenyl.pdf>

Generated by Cheméo on 2024-04-24 16:05:38.109054842 +0000 UTC m=+16263987.029632153.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.