

2,4-Dibromo-1-naphthol

Other names:	1-Naphthalenol, 2,4-dibromo-
Inchi:	InChI=1S/C10H6Br2O/c11-8-5-9(12)10(13)7-4-2-1-3-6(7)8/h1-5,13H
InchiKey:	PSGUDVJPEWTBRM-UHFFFAOYSA-N
Formula:	C10H6Br2O
SMILES:	Oc1c(Br)cc(Br)c2ccccc12
Mol. weight [g/mol]:	301.96
CAS:	2050-49-9

Physical Properties

Property code	Value	Unit	Source
gf	107.14	kJ/mol	Joback Method
hf	30.28	kJ/mol	Joback Method
hfus	28.29	kJ/mol	Joback Method
hvap	68.98	kJ/mol	Joback Method
log10ws	-5.15		Crippen Method
logp	4.070		Crippen Method
mcvol	149.410	ml/mol	McGowan Method
pc	5527.84	kPa	Joback Method
tb	696.76	K	Joback Method
tc	974.78	K	Joback Method
tf	517.94	K	Joback Method
vc	0.499	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.58	J/mol×K	696.76	Joback Method
cpg	318.91	J/mol×K	743.10	Joback Method
cpg	326.66	J/mol×K	789.43	Joback Method
cpg	334.03	J/mol×K	835.77	Joback Method
cpg	341.25	J/mol×K	882.10	Joback Method
cpg	348.53	J/mol×K	928.44	Joback Method
cpg	356.09	J/mol×K	974.78	Joback Method
dvisc	0.0002827	Pa×s	517.94	Joback Method

dvisc	0.0001863	Pa×s	547.74	Joback Method
dvisc	0.0001282	Pa×s	577.55	Joback Method
dvisc	0.0000915	Pa×s	607.35	Joback Method
dvisc	0.0000674	Pa×s	637.15	Joback Method
dvisc	0.0000511	Pa×s	666.96	Joback Method
dvisc	0.0000396	Pa×s	696.76	Joback Method

Sources

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=C2050499&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

Latest version available from:

<https://www.chemeo.com/cid/13-505-6/2-4-Dibromo-1-naphthol.pdf>

Generated by Cheméo on 2025-12-05 20:46:25.563090099 +0000 UTC m=+4715783.093130753.

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