

Benzene, 1,4-dibromo-2-methyl-

Other names:	2,5-Dibromotoluene Toluene, 2,5-dibromo-
Inchi:	InChI=1S/C7H6Br2/c1-5-4-6(8)2-3-7(5)9/h2-4H,1H3
InchiKey:	QKEZTJYRBHOKHH-UHFFFAOYSA-N
Formula:	C7H6Br2
SMILES:	Cc1cc(Br)ccc1Br
Mol. weight [g/mol]:	249.93
CAS:	615-59-8

Physical Properties

Property code	Value	Unit	Source
gf	129.85	kJ/mol	Joback Method
hf	78.44	kJ/mol	Joback Method
hfus	17.72	kJ/mol	Joback Method
hvap	47.65	kJ/mol	Joback Method
log10ws	-4.27		Crippen Method
logp	3.520		Crippen Method
mvol	120.730	ml/mol	McGowan Method
pc	4749.69	kPa	Joback Method
tb	509.20	K	NIST Webbook
tc	781.02	K	Joback Method
tf	278.77 ± 1.00	K	NIST Webbook
vc	0.444	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.12	J/mol×K	528.52	Joback Method
cpg	212.22	J/mol×K	570.60	Joback Method
cpg	220.62	J/mol×K	612.69	Joback Method
cpg	228.36	J/mol×K	654.77	Joback Method
cpg	235.51	J/mol×K	696.85	Joback Method
cpg	242.11	J/mol×K	738.94	Joback Method
cpg	248.21	J/mol×K	781.02	Joback Method

dvisc	0.0014758	Paxs	339.71	Joback Method
dvisc	0.0010226	Paxs	371.18	Joback Method
dvisc	0.0007504	Paxs	402.65	Joback Method
dvisc	0.0005759	Paxs	434.12	Joback Method
dvisc	0.0004581	Paxs	465.58	Joback Method
dvisc	0.0003751	Paxs	497.05	Joback Method
dvisc	0.0003145	Paxs	528.52	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	408.70	K	4.70	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C615598&Units=SI
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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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