

Benzene, 2-bromo-1,3-dimethyl-

Other names:	1-Bromo-2,6-dimethylbenzene 2,6-Dimethylbromobenzene 2-Bromo-1,3-dimethylbenzene 2-Bromo-m-xylene 2-Bromo-meta-xylene m-Xylene, 2-bromo-
Inchi:	InChI=1S/C8H9Br/c1-6-4-3-5-7(2)8(6)9/h3-5H,1-2H3
InchiKey:	MYMYVYZLMUEVED-UHFFFAOYSA-N
Formula:	C8H9Br
SMILES:	Cc1cccc(C)c1Br
Mol. weight [g/mol]:	185.06
CAS:	576-22-7

Physical Properties

Property code	Value	Unit	Source
gf	123.95	kJ/mol	Joback Method
hf	31.47	kJ/mol	Joback Method
hfus	15.02	kJ/mol	Joback Method
hvap	43.44	kJ/mol	Joback Method
log10ws	-3.59		Crippen Method
logp	3.066		Crippen Method
mcvol	117.320	ml/mol	McGowan Method
pc	3829.28	kPa	Joback Method
tb	479.20	K	NIST Webbook
tb	479.00	K	NIST Webbook
tc	716.43	K	Joback Method
tf	291.18	K	Joback Method
vc	0.438	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	212.91	J/mol×K	485.24	Joback Method
cpg	224.18	J/mol×K	523.77	Joback Method

cpg	234.76	J/mol×K	562.30	Joback Method
cpg	244.68	J/mol×K	600.83	Joback Method
cpg	253.98	J/mol×K	639.37	Joback Method
cpg	262.68	J/mol×K	677.90	Joback Method
cpg	270.81	J/mol×K	716.43	Joback Method
dvisc	0.0016069	Pa×s	291.18	Joback Method
dvisc	0.0010357	Pa×s	323.52	Joback Method
dvisc	0.0007230	Pa×s	355.87	Joback Method
dvisc	0.0005358	Pa×s	388.21	Joback Method
dvisc	0.0004159	Pa×s	420.55	Joback Method
dvisc	0.0003347	Pa×s	452.90	Joback Method
dvisc	0.0002772	Pa×s	485.24	Joback Method
pvap	6.95e-03	kPa	274.20	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	8.40e-03	kPa	276.20	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.01	kPa	278.30	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.01	kPa	281.20	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.02	kPa	284.20	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.02	kPa	287.20	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.03	kPa	290.20	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.03	kPa	293.30	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.03	kPa	293.30	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.03	kPa	293.40	Thermochemistry of Halogen-Substituted Methylbenzenes

pvap	0.04	kPa	296.30	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.05	kPa	299.30	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.06	kPa	302.20	Thermochemistry of Halogen-Substituted Methylbenzenes
pvap	0.08	kPa	305.30	Thermochemistry of Halogen-Substituted Methylbenzenes

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	315.00	K	0.10	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.39149e+01
Coeff. B	-3.77016e+03
Coeff. C	-7.36590e+01
Temperature range (K), min.	350.32
Temperature range (K), max.	511.87

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=C576227&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Thermochemistry of Halogen-Substituted Methylbenzenes: <https://www.doi.org/10.1021/je500784s>

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
pvap:	Vapor 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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