

2-Bromo-p-cymene

Other names:	Benzene, 2-bromo-1-methyl-4-(1-methylethyl)-
Inchi:	InChI=1S/C10H13Br/c1-7(2)9-5-4-8(3)10(11)6-9/h4-7H,1-3H3
InchiKey:	SPQXEZCUUYJJQL-UHFFFAOYSA-N
Formula:	C10H13Br
SMILES:	<chem>Cc1ccc(C(C)C)cc1Br</chem>
Mol. weight [g/mol]:	213.11
CAS:	2437-76-5

Physical Properties

Property code	Value	Unit	Source
gf	138.35	kJ/mol	Joback Method
hf	-15.09	kJ/mol	Joback Method
hfus	16.68	kJ/mol	Joback Method
hvap	47.50	kJ/mol	Joback Method
log10ws	-4.30		Crippen Method
logp	3.881		Crippen Method
mcvol	145.500	ml/mol	McGowan Method
pc	3086.42	kPa	Joback Method
tb	507.45 ± 0.50	K	NIST Webbook
tb	507.50	K	NIST Webbook
tc	758.86	K	Joback Method
tf	298.72	K	Joback Method
vc	0.543	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.50	J/molxK	530.56	Joback Method
cpg	312.40	J/molxK	568.61	Joback Method
cpg	325.46	J/molxK	606.66	Joback Method
cpg	337.72	J/molxK	644.71	Joback Method
cpg	349.20	J/molxK	682.76	Joback Method
cpg	359.96	J/molxK	720.81	Joback Method
cpg	370.02	J/molxK	758.86	Joback Method

dvisc	0.0020742	Paxs	298.72	Joback Method
dvisc	0.0011645	Paxs	337.36	Joback Method
dvisc	0.0007362	Paxs	376.00	Joback Method
dvisc	0.0005069	Paxs	414.64	Joback Method
dvisc	0.0003720	Paxs	453.28	Joback Method
dvisc	0.0002865	Paxs	491.92	Joback Method
dvisc	0.0002293	Paxs	530.56	Joback Method
hvapt	50.20	kJ/mol	455.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	372.20	K	1.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2437765&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	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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