

Cyclohexanol, 2-bromo-, trans-

Other names:	trans-2-Bromocyclohexanol 2-Bromocyclohexanol, (E)
Inchi:	InChI=1S/C6H11BrO/c7-5-3-1-2-4-6(5)8/h5-6,8H,1-4H2/t5-,6-/m0/s1
InchiKey:	AAMCLCZHZXKWRV-WDSKDSINSA-N
Formula:	C6H11BrO
SMILES:	OC1CCCCC1Br
Mol. weight [g/mol]:	179.06
CAS:	2425-33-4

Physical Properties

Property code	Value	Unit	Source
gf	-106.12	kJ/mol	Joback Method
hf	-259.09	kJ/mol	Joback Method
hfus	13.57	kJ/mol	Joback Method
hvap	52.18	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	1.685		Crippen Method
mcvol	107.910	ml/mol	McGowan Method
pc	4684.89	kPa	Joback Method
tb	509.90	K	Joback Method
tc	720.76	K	Joback Method
tf	281.14	K	Joback Method
vc	0.385	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.93	J/mol×K	509.90	Joback Method
cpg	241.56	J/mol×K	545.04	Joback Method
cpg	253.47	J/mol×K	580.19	Joback Method
cpg	264.69	J/mol×K	615.33	Joback Method
cpg	275.23	J/mol×K	650.48	Joback Method
cpg	285.13	J/mol×K	685.62	Joback Method
cpg	294.40	J/mol×K	720.76	Joback Method

dvisc	0.0184055	Paxs	281.14	Joback Method
dvisc	0.0057078	Paxs	319.27	Joback Method
dvisc	0.0022724	Paxs	357.39	Joback Method
dvisc	0.0010805	Paxs	395.52	Joback Method
dvisc	0.0005855	Paxs	433.65	Joback Method
dvisc	0.0003503	Paxs	471.77	Joback Method
dvisc	0.0002263	Paxs	509.90	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=C2425334&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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.cheméo.com/cid/44-336-0/Cyclohexanol-2-bromo-trans.pdf>

Generated by Cheméo on 2024-05-02 22:57:24.126062124 +0000 UTC m=+16979893.046639504.

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