

Octane, 2-bromo-3-(trichloromethyl), threo

Inchi:	InChI=1S/C9H16BrCl3/c1-3-4-5-6-8(7(2)10)9(11,12)13/h7-8H,3-6H2,1-2H3/t7-,8-/m0/s1
InchiKey:	LGJUZIWUDCVORF-YUMQZZPRSA-N
Formula:	C9H16BrCl3
SMILES:	CCCCC(C(C)Br)C(Cl)(Cl)Cl
Mol. weight [g/mol]:	310.49

Physical Properties

Property code	Value	Unit	Source
gf	1.39	kJ/mol	Joback Method
hf	-269.29	kJ/mol	Joback Method
hfus	22.48	kJ/mol	Joback Method
hvap	53.15	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	5.337		Crippen Method
mvol	191.890	ml/mol	McGowan Method
pc	2291.52	kPa	Joback Method
rinsol	1548.00		NIST Webbook
tb	579.66	K	Joback Method
tc	793.91	K	Joback Method
tf	313.17	K	Joback Method
vc	0.726	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	408.74	J/molxK	579.66	Joback Method
cpg	422.00	J/molxK	615.37	Joback Method
cpg	434.34	J/molxK	651.08	Joback Method
cpg	445.84	J/molxK	686.78	Joback Method
cpg	456.56	J/molxK	722.49	Joback Method
cpg	466.56	J/molxK	758.20	Joback Method
cpg	475.89	J/molxK	793.91	Joback Method
dvisc	0.0053032	Paxs	313.17	Joback Method
dvisc	0.0021530	Paxs	357.59	Joback Method

dvisc	0.0010668	Paxs	402.00	Joback Method
dvisc	0.0006078	Paxs	446.42	Joback Method
dvisc	0.0003834	Paxs	490.83	Joback Method
dvisc	0.0002611	Paxs	535.25	Joback Method
dvisc	0.0001886	Paxs	579.66	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R515489&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

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
rinpol:	Non-polar retention indices
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/61-654-8/Octane-2-bromo-3-trichloromethyl-threo.pdf>

Generated by Cheméo on 2024-04-25 05:44:24.717172458 +0000 UTC m=+16313113.637749769.

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