

# Octane, 2-bromo-3-(trichloromethyl), erythro

<b>Inchi:</b>	InChI=1S/C9H16BrCl3/c1-3-4-5-6-8(7(2)10)9(11,12)13/h7-8H,3-6H2,1-2H3/t7-,8+/m1/s1
<b>InchiKey:</b>	LGJUZIWUDCVORF-SFYZADRCSA-N
<b>Formula:</b>	C9H16BrCl3
<b>SMILES:</b>	CCCCC(C(C)Br)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	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
mcvol	191.890	ml/mol	McGowan Method
pc	2291.52	kPa	Joback Method
rinsol	1515.00		NIST Webbook
tb	579.66	K	Joback Method
tc	793.91	K	Joback Method
tf	313.17	K	Joback Method
vc	0.726	m3/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

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R515474&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R515474&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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