

# 1-Bromo-3,7-dimethyloctane

<b>Inchi:</b>	InChI=1S/C10H21Br/c1-9(2)5-4-6-10(3)7-8-11/h9-10H,4-8H2,1-3H3
<b>InchiKey:</b>	VGSUDZKDSKCYJP-UHFFFAOYSA-N
<b>Formula:</b>	C10H21Br
<b>SMILES:</b>	CC(C)CCCC(C)CBr
<b>Mol. weight [g/mol]:</b>	221.18
<b>CAS:</b>	3383-83-3

## Physical Properties

Property code	Value	Unit	Source
gf	42.76	kJ/mol	Joback Method
hf	-233.96	kJ/mol	Joback Method
hfus	19.89	kJ/mol	Joback Method
hvap	43.51	kJ/mol	Joback Method
log10ws	-3.96		Crippen Method
logp	4.234		Crippen Method
mvol	169.260	ml/mol	McGowan Method
pc	2282.77	kPa	Joback Method
tb	493.48	K	Joback Method
tc	678.75	K	Joback Method
tf	232.26	K	Joback Method
vc	0.645	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	365.32	J/molxK	493.48	Joback Method
cpg	436.31	J/molxK	647.87	Joback Method
cpg	423.45	J/molxK	616.99	Joback Method
cpg	409.94	J/molxK	586.11	Joback Method
cpg	395.77	J/molxK	555.24	Joback Method
cpg	380.90	J/molxK	524.36	Joback Method
cpg	448.55	J/molxK	678.75	Joback Method
dvisc	0.0002360	Paxs	493.48	Joback Method
dvisc	0.0003238	Paxs	449.94	Joback Method

dvisc	0.0004754	Paxs	406.41	Joback Method
dvisc	0.0007652	Paxs	362.87	Joback Method
dvisc	0.0014024	Paxs	319.33	Joback Method
dvisc	0.0031121	Paxs	275.80	Joback Method
dvisc	0.0093112	Paxs	232.26	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3383833&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3383833&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>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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