

# 3,4-Dimethyl-2,3-dibromopentane

<b>Inchi:</b>	InChI=1S/C7H14Br2/c1-5(2)7(4,9)6(3)8/h5-6H,1-4H3
<b>InchiKey:</b>	PHXVGFUZGBVLOJ-UHFFFAOYSA-N
<b>Formula:</b>	C7H14Br2
<b>SMILES:</b>	CC(C)C(C)(Br)C(C)Br
<b>Mol. weight [g/mol]:</b>	257.99

## Physical Properties

Property code	Value	Unit	Source
gf	34.66	kJ/mol	Joback Method
hf	-154.46	kJ/mol	Joback Method
hfus	10.00	kJ/mol	Joback Method
hvap	41.97	kJ/mol	Joback Method
log10ws	-3.60		Crippen Method
logp	3.579		Crippen Method
mcvol	144.490	ml/mol	McGowan Method
pc	3392.03	kPa	Joback Method
rinpol	1126.00		NIST Webbook
tb	487.77	K	Joback Method
tc	709.79	K	Joback Method
tf	260.67	K	Joback Method
vc	0.528	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.91	J/molxK	487.77	Joback Method
cpg	292.19	J/molxK	524.77	Joback Method
cpg	304.52	J/molxK	561.78	Joback Method
cpg	315.97	J/molxK	598.78	Joback Method
cpg	326.61	J/molxK	635.78	Joback Method
cpg	336.49	J/molxK	672.78	Joback Method
cpg	345.67	J/molxK	709.79	Joback Method
dvisc	0.0082082	Paxs	260.67	Joback Method
dvisc	0.0033291	Paxs	298.52	Joback Method

dvisc	0.0016543	Paxs	336.37	Joback Method
dvisc	0.0009469	Paxs	374.22	Joback Method
dvisc	0.0006006	Paxs	412.07	Joback Method
dvisc	0.0004112	Paxs	449.92	Joback Method
dvisc	0.0002986	Paxs	487.77	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R559414&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R559414&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>

## 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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