

# 1-Bromo-4-methylhexane

<b>Inchi:</b>	InChI=1S/C7H15Br/c1-3-7(2)5-4-6-8/h7H,3-6H2,1-2H3
<b>InchiKey:</b>	QIXNVYCYRYRCAK-UHFFFAOYSA-N
<b>Formula:</b>	C7H15Br
<b>SMILES:</b>	CCC(C)CCBr
<b>Mol. weight [g/mol]:</b>	179.10
<b>CAS:</b>	---

## Physical Properties

Property code	Value	Unit	Source
gf	19.94	kJ/mol	Joback Method
hf	-166.76	kJ/mol	Joback Method
hfus	15.65	kJ/mol	Joback Method
hvap	37.22	kJ/mol	Joback Method
log10ws	-2.94		Crippen Method
logp	3.208		Crippen Method
mvol	126.990	ml/mol	McGowan Method
pc	3042.32	kPa	Joback Method
rinpol	1013.00		NIST Webbook
tb	425.28	K	Joback Method
tc	611.91	K	Joback Method
tf	213.45	K	Joback Method
vc	0.483	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	236.30	J/molxK	425.28	Joback Method
cpg	292.23	J/molxK	580.80	Joback Method
cpg	282.08	J/molxK	549.70	Joback Method
cpg	271.43	J/molxK	518.59	Joback Method
cpg	260.26	J/molxK	487.49	Joback Method
cpg	248.56	J/molxK	456.38	Joback Method
cpg	301.90	J/molxK	611.91	Joback Method
dvisc	0.0003157	Paxs	425.28	Joback Method

dvisc	0.0004157	Paxs	389.98	Joback Method
dvisc	0.0005781	Paxs	354.67	Joback Method
dvisc	0.0008648	Paxs	319.37	Joback Method
dvisc	0.0014299	Paxs	284.06	Joback Method
dvisc	0.0027270	Paxs	248.75	Joback Method
dvisc	0.0064391	Paxs	213.45	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.52627e+01
Coeff. B	-4.03730e+03
Coeff. C	-6.40400e+01
Temperature range (K), min.	333.64
Temperature range (K), max.	469.75

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R412578&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R412578&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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>

## 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>pvap:</b>	Vapor pressure
<b>rinpola:</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

Latest version available from:

<https://www.cheméo.com/cid/52-027-4/1-Bromo-4-methylhexane.pdf>

Generated by Cheméo on 2024-04-23 08:43:39.683468429 +0000 UTC m=+16151068.604045744.

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