

# Cyclopentanol,2-bromo-,acetate,trans-

<b>Inchi:</b>	InChI=1S/C7H11BrO2/c1-5(9)10-7-4-2-3-6(7)8/h6-7H,2-4H2,1H3/t6-,7-/m1/s1
<b>InchiKey:</b>	RWFKZZAXUPSAQT-RNFRBKRXSA-N
<b>Formula:</b>	C7H11BrO2
<b>SMILES:</b>	CC(=O)OC1CCCC1Br
<b>Mol. weight [g/mol]:</b>	207.06
<b>CAS:</b>	53093-42-8

## Physical Properties

Property code	Value	Unit	Source
gf	-182.70	kJ/mol	Joback Method
hf	-366.14	kJ/mol	Joback Method
hfus	16.96	kJ/mol	Joback Method
hvap	46.72	kJ/mol	Joback Method
ie	10.07 ± 0.02	eV	NIST Webbook
log10ws	-2.17		Crippen Method
logp	1.865		Crippen Method
mcvol	123.570	ml/mol	McGowan Method
pc	3773.04	kPa	Joback Method
tb	512.62	K	Joback Method
tc	735.30	K	Joback Method
tf	307.27	K	Joback Method
vc	0.454	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	262.46	J/molxK	512.62	Joback Method
cpg	276.29	J/molxK	549.73	Joback Method
cpg	289.34	J/molxK	586.85	Joback Method
cpg	301.63	J/molxK	623.96	Joback Method
cpg	313.18	J/molxK	661.07	Joback Method
cpg	324.00	J/molxK	698.19	Joback Method
cpg	334.10	J/molxK	735.30	Joback Method
dvisc	0.0023129	Paxs	307.27	Joback Method

dvisc	0.0015206	Paxs	341.50	Joback Method
dvisc	0.0010791	Paxs	375.72	Joback Method
dvisc	0.0008109	Paxs	409.94	Joback Method
dvisc	0.0006368	Paxs	444.17	Joback Method
dvisc	0.0005177	Paxs	478.39	Joback Method
dvisc	0.0004326	Paxs	512.62	Joback Method

## 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=C53093428&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C53093428&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>ie:</b>	Ionization energy
<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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