

# Acetic acid, bromo-, methyl ester

<b>Other names:</b>	Bromoacetic acid methyl ester Methyl «alpha»-bromoacetate Methyl bromoacetate Methyl 2-bromoacetate Methyl monobromoacetate Methylester kyseliny bromoctove UN 2643 Acetic acid, 2-bromo-, methyl ester NSC 2642
<b>Inchi:</b>	InChI=1S/C3H5BrO2/c1-6-3(5)2-4/h2H2,1H3
<b>InchiKey:</b>	YDCHPLOFQATIDS-UHFFFAOYSA-N
<b>Formula:</b>	C3H5BrO2
<b>SMILES:</b>	COC(=O)CBr
<b>Mol. weight [g/mol]:</b>	152.97
<b>CAS:</b>	96-32-2

## Physical Properties

Property code	Value	Unit	Source
gf	-245.22	kJ/mol	Joback Method
hf	-323.72	kJ/mol	Joback Method
hfus	11.60	kJ/mol	Joback Method
hvap	37.86	kJ/mol	Joback Method
ie	10.37 ± 0.05	eV	NIST Webbook
log10ws	-0.37		Crippen Method
logp	0.554		Crippen Method
mcvol	78.070	ml/mol	McGowan Method
pc	5168.28	kPa	Joback Method
rinpol	800.20		NIST Webbook
rinpol	793.00		NIST Webbook
rinpol	810.00		NIST Webbook
rinpol	810.00		NIST Webbook
rinpol	793.00		NIST Webbook
tb	417.00	K	NIST Webbook
tc	611.45	K	Joback Method
tf	255.53	K	Joback Method
vc	0.289	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	123.98	J/molxK	410.49	Joback Method
cpg	129.47	J/molxK	443.98	Joback Method
cpg	134.75	J/molxK	477.48	Joback Method
cpg	139.83	J/molxK	510.97	Joback Method
cpg	144.72	J/molxK	544.46	Joback Method
cpg	149.40	J/molxK	577.96	Joback Method
cpg	153.88	J/molxK	611.45	Joback Method
dvisc	0.0025095	Paxs	255.53	Joback Method
dvisc	0.0016040	Paxs	281.36	Joback Method
dvisc	0.0011054	Paxs	307.18	Joback Method
dvisc	0.0008070	Paxs	333.01	Joback Method
dvisc	0.0006165	Paxs	358.84	Joback Method
dvisc	0.0004883	Paxs	384.66	Joback Method
dvisc	0.0003983	Paxs	410.49	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	324.70	K	2.00	NIST Webbook

## Sources

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C96322&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

# 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>mccvol:</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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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