

2-BROMOMETHYL-1,3-DIOXOLANE

Other names:	1,3-Dioxolane, 2-(bromomethyl)-
Inchi:	InChI=1S/C4H7BrO2/c5-3-4-6-1-2-7-4/h4H,1-3H2
InchiKey:	CKIJJIDEWWXQEA-UHFFFAOYSA-N
Formula:	C4H7BrO2
SMILES:	BrCC1OCCO1
Mol. weight [g/mol]:	167.00

Physical Properties

Property code	Value	Unit	Source
hfus	21.29	kJ/mol	Joback Method
ie	10.15	eV	Cheméo Relay (1.0)
logp	0.754		Crippen Method
mcvol	85.600	ml/mol	McGowan Method
tb	437.65	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	155.95	J/mol×K	426.26	Joback Method
cpg	166.22	J/mol×K	463.18	Joback Method
cpg	175.85	J/mol×K	500.11	Joback Method
cpg	184.87	J/mol×K	537.03	Joback Method
cpg	193.29	J/mol×K	573.96	Joback Method
cpg	201.16	J/mol×K	610.88	Joback Method
cpg	208.49	J/mol×K	647.81	Joback Method
dvisc	0.0044924	Pa×s	258.68	Joback Method
dvisc	0.0027153	Pa×s	286.61	Joback Method
dvisc	0.0017947	Pa×s	314.54	Joback Method
dvisc	0.0012691	Pa×s	342.47	Joback Method
dvisc	0.0009456	Pa×s	370.40	Joback Method
dvisc	0.0007342	Pa×s	398.33	Joback Method
dvisc	0.0005893	Pa×s	426.26	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	354.20	K	3.60	NIST Webbook

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C4360638&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

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

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure

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