

Butanoic acid, 2-bromo-, ethyl ester

Other names:	Butyric acid, 2-bromo-, ethyl ester Ethyl «alpha»-bromobutyrate Ethyl 2-bromobutanoate Ethyl 2-bromobutyrate «alpha»-Bromobutyric acid ethyl ester Ethyl «alpha»-bromo-n-butyrate «alpha»-Bromo-n-butyric acid ethyl ester 2-Bromobutanoic acid ethyl ester NSC 8855
Inchi:	InChI=1S/C6H11BrO2/c1-3-5(7)6(8)9-4-2/h5H,3-4H2,1-2H3
InchiKey:	XIMFCGSNSKXPBO-UHFFFAOYSA-N
Formula:	C6H11BrO2
SMILES:	CCOC(=O)C(Br)CC
Mol. weight [g/mol]:	195.05
CAS:	533-68-6

Physical Properties

Property code	Value	Unit	Source
gf	-222.40	kJ/mol	Joback Method
hf	-390.92	kJ/mol	Joback Method
hfus	15.85	kJ/mol	Joback Method
hvap	44.15	kJ/mol	Joback Method
log10ws	-1.74		Crippen Method
logp	1.723		Crippen Method
mcvol	120.340	ml/mol	McGowan Method
pc	3581.35	kPa	Joback Method
rinpol	996.00		NIST Webbook
tb	478.69	K	Joback Method
tc	677.47	K	Joback Method
tf	274.34	K	Joback Method
vc	0.452	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	235.52	J/mol×K	478.69	Joback Method
cpg	245.58	J/mol×K	511.82	Joback Method
cpg	255.20	J/mol×K	544.95	Joback Method
cpg	264.38	J/mol×K	578.08	Joback Method
cpg	273.13	J/mol×K	611.21	Joback Method
cpg	281.46	J/mol×K	644.34	Joback Method
cpg	289.37	J/mol×K	677.47	Joback Method
dvisc	0.0035442	Paxs	274.34	Joback Method
dvisc	0.0018866	Paxs	308.40	Joback Method
dvisc	0.0011385	Paxs	342.46	Joback Method
dvisc	0.0007528	Paxs	376.51	Joback Method
dvisc	0.0005331	Paxs	410.57	Joback Method
dvisc	0.0003980	Paxs	444.63	Joback Method
dvisc	0.0003098	Paxs	478.69	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C533686&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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