

Propanoic acid, 2,3-dibromo-, butyl ester

Inchi:	InChI=1S/C7H12Br2O2/c1-2-3-4-11-7(10)6(9)5-8/h6H,2-5H2,1H3
InchiKey:	PTODVLUSMZDXKT-UHFFFAOYSA-N
Formula:	C7H12Br2O2
SMILES:	CCCCOC(=O)C(Br)CBr
Mol. weight [g/mol]:	287.98
CAS:	21179-48-6

Physical Properties

Property code	Value	Unit	Source
gf	-199.66	kJ/mol	Joback Method
hf	-385.23	kJ/mol	Joback Method
hfus	23.72	kJ/mol	Joback Method
hvap	52.81	kJ/mol	Joback Method
log10ws	-2.59		Crippen Method
logp	2.488		Crippen Method
mcvol	151.930	ml/mol	McGowan Method
pc	3468.36	kPa	Joback Method
rinpol	1327.00		NIST Webbook
tb	567.73	K	Joback Method
tc	777.95	K	Joback Method
tf	345.41	K	Joback Method
vc	0.570	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	312.32	J/molxK	567.73	Joback Method
cpg	322.87	J/molxK	602.77	Joback Method
cpg	332.84	J/molxK	637.80	Joback Method
cpg	342.24	J/molxK	672.84	Joback Method
cpg	351.11	J/molxK	707.87	Joback Method
cpg	359.46	J/molxK	742.91	Joback Method
cpg	367.31	J/molxK	777.95	Joback Method
dvisc	0.0023638	Paxs	345.41	Joback Method

dvisc	0.0013698	Paxs	382.46	Joback Method
dvisc	0.0008741	Paxs	419.52	Joback Method
dvisc	0.0006000	Paxs	456.57	Joback Method
dvisc	0.0004358	Paxs	493.62	Joback Method
dvisc	0.0003309	Paxs	530.68	Joback Method
dvisc	0.0002605	Paxs	567.73	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C21179486&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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