Butanoic acid, 2-iodoethyl ester

Inchi: InChI=1S/C6H11IO2/c1-2-3-6(8)9-5-4-7/h2-5H2,1H3
InchiKey: UYFBABCXYVYDPU-UHFFFAOYSA-N
Formula: C6H11IO2
SMILES: CCCC(=O)OCCI
Mol. weight [g/mol]: 242.05

Physical Properties

Property code	Value	Unit	Source
gf	-176.16	kJ/mol	Joback Method
hf	-335.10	kJ/mol	Joback Method
hfus	18.49	kJ/mol	Joback Method
hvap	47.48	kJ/mol	Joback Method
log10ws	-2.14		Crippen Method
logp	1.765		Crippen Method
mcvol	128.660	ml/mol	McGowan Method
pc	3191.93	kPa	Joback Method
tb	506.11	K	Joback Method
tc	715.74	K	Joback Method
tf	287.60	K	Joback Method
vc	0.483	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	245.54	J/mol×K	506.11	Joback Method
cpg	290.68	J/mol×K	680.80	Joback Method
cpg	282.57	J/mol×K	645.86	Joback Method
cpg	274.01	J/mol×K	610.93	Joback Method
cpg	264.99	J/mol×K	575.99	Joback Method
cpg	255.51	J/mol×K	541.05	Joback Method
cpg	298.35	J/mol×K	715.74	Joback Method
dvisc	0.0003261	Pa×s	506.11	Joback Method
dvisc	0.0004167	Pa×s	469.69	Joback Method
dvisc	0.0005547	Pa×s	433.27	Joback Method

dvisc	0.0007783	Pa×s	396.86	Joback Method
dvisc	0.0011694	Pa×s	360.44	Joback Method
dvisc	0.0019254	Pa×s	324.02	Joback Method
dvisc	0.0035969	Pa×s	287.60	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R19818&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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