

2-(2-Isobutoxyethoxy)ethyl acetate

Inchi:	InChI=1S/C10H20O4/c1-9(2)8-13-5-4-12-6-7-14-10(3)11/h9H,4-8H2,1-3H3
InchiKey:	IFECNCNVQFVRMZ-UHFFFAOYSA-N
Formula:	C10H20O4
SMILES:	CC(=O)OCCOCCOCC(C)C
Mol. weight [g/mol]:	204.26

Physical Properties

Property code	Value	Unit	Source
gf	-413.04	kJ/mol	Joback Method
hf	-764.25	kJ/mol	Joback Method
hfus	23.30	kJ/mol	Joback Method
hvap	51.44	kJ/mol	Joback Method
log10ws	-0.80		Crippen Method
logp	1.239		Crippen Method
mcvol	170.940	ml/mol	McGowan Method
pc	2147.32	kPa	Joback Method
rinsol	1366.00		NIST Webbook
tb	548.89	K	Joback Method
tc	723.39	K	Joback Method
tf	304.08	K	Joback Method
vc	0.649	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	420.67	J/mol×K	548.89	Joback Method
cpg	434.80	J/mol×K	577.97	Joback Method
cpg	448.44	J/mol×K	607.06	Joback Method
cpg	461.58	J/mol×K	636.14	Joback Method
cpg	474.23	J/mol×K	665.22	Joback Method
cpg	486.36	J/mol×K	694.31	Joback Method
cpg	497.96	J/mol×K	723.39	Joback Method
dvisc	0.0022438	Paxs	304.08	Joback Method
dvisc	0.0010704	Paxs	344.88	Joback Method

dvisc	0.0005972	Paxs	385.68	Joback Method
dvisc	0.0003726	Paxs	426.49	Joback Method
dvisc	0.0002524	Paxs	467.29	Joback Method
dvisc	0.0001820	Paxs	508.09	Joback Method
dvisc	0.0001378	Paxs	548.89	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=R188700&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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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