

SEC-BUTYL ACETOACETATE

Other names:	Acetoacetic acid, sec-butyl ester sec-Butyl Acetoacetate
Inchi:	InChI=1S/C8H14O3/c1-4-7(3)11-8(10)5-6(2)9/h7H,4-5H2,1-3H3
InchiKey:	QSTNBMLCULGCQE-UHFFFAOYSA-N
Formula:	C8H14O3
SMILES:	CCC(C)OC(=O)CC(C)=O
Mol. weight [g/mol]:	158.20

Physical Properties

Property code	Value	Unit	Source
hf	-670.30	kJ/mol	Cheméo Relay (1.0)
hfus	17.34	kJ/mol	Joback Method
hvap	53.62	kJ/mol	Cheméo Relay (1.0)
ie	9.46	eV	Cheméo Relay (1.0)
logp	1.307		Crippen Method
mcvol	132.590	ml/mol	McGowan Method
tb	467.00	K	NIST Webbook
tf	239.13	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.94	J/mol×K	512.16	Joback Method
cpg	310.84	J/mol×K	543.60	Joback Method
cpg	322.24	J/mol×K	575.03	Joback Method
cpg	333.16	J/mol×K	606.47	Joback Method
cpg	343.58	J/mol×K	637.91	Joback Method
cpg	353.52	J/mol×K	669.35	Joback Method
cpg	362.98	J/mol×K	700.78	Joback Method
dvisc	0.0036492	Pa×s	287.01	Joback Method
dvisc	0.0018279	Pa×s	324.53	Joback Method
dvisc	0.0010567	Pa×s	362.06	Joback Method
dvisc	0.0006771	Pa×s	399.58	Joback Method
dvisc	0.0004683	Pa×s	437.11	Joback Method

dvisc	0.0003434	Pa×s	474.63	Joback Method
dvisc	0.0002635	Pa×s	512.16	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C13562760&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

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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