

3,3-DIMETHOXY-2-BUTANONE

Inchi:	InChI=1S/C6H12O3/c1-5(7)6(2,8-3)9-4/h1-4H3
InchiKey:	UFQBSPGKRRSATO-UHFFFAOYSA-N
Formula:	C6H12O3
SMILES:	COC(C)(OC)C(C)=O
Mol. weight [g/mol]:	132.16

Physical Properties

Property code	Value	Unit	Source
hf	-551.61	kJ/mol	Cheméo Relay (1.0)
hfus	7.86	kJ/mol	Joback Method
hvap	44.08	kJ/mol	Cheméo Relay (1.0)
ie	9.13	eV	Cheméo Relay (1.0)
log10ws	-0.40		Cheméo Relay (1.0)
logp	0.584		Crippen Method
mcvol	108.710	ml/mol	McGowan Method
tb	418.70	K	NIST Webbook
tc	594.15	K	Cheméo Relay (1.0)
tf	281.37	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	224.41	J/mol×K	432.16	Joback Method
cpg	283.05	J/mol×K	621.06	Joback Method
cpg	274.33	J/mol×K	589.58	Joback Method
cpg	265.19	J/mol×K	558.09	Joback Method
cpg	255.63	J/mol×K	526.61	Joback Method
cpg	245.64	J/mol×K	495.13	Joback Method
cpg	235.24	J/mol×K	463.64	Joback Method
dvisc	0.0006567	Pa×s	343.17	Joback Method
dvisc	0.0002505	Pa×s	432.16	Joback Method
dvisc	0.0003294	Pa×s	402.50	Joback Method
dvisc	0.0004525	Pa×s	372.84	Joback Method
dvisc	0.0033807	Pa×s	254.19	Joback Method

dvisc	0.0010226	Paxs	313.51	Joback Method
dvisc	0.0017467	Paxs	283.85	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C21983722&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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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