

Butyl pyruvate

Inchi:	InChI=1S/C7H12O3/c1-3-4-5-10-7(9)6(2)8/h3-5H2,1-2H3
InchiKey:	ZAZUOXBHFXAWMD-UHFFFAOYSA-N
Formula:	C7H12O3
SMILES:	CCCCOC(=O)C(C)=O
Mol. weight [g/mol]:	144.17
CAS:	20279-44-1

Physical Properties

Property code	Value	Unit	Source
gf	-354.78	kJ/mol	Joback Method
hf	-545.19	kJ/mol	Joback Method
hfus	18.27	kJ/mol	Joback Method
hvap	47.08	kJ/mol	Joback Method
log10ws	-0.90		Crippen Method
logp	0.919		Crippen Method
mcvol	118.500	ml/mol	McGowan Method
pc	3152.62	kPa	Joback Method
rinpol	968.00		NIST Webbook
rinpol	968.00		NIST Webbook
tb	489.72	K	Joback Method
tc	676.50	K	Joback Method
tf	290.74	K	Joback Method
vc	0.458	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.79	J/mol×K	489.72	Joback Method
cpg	266.32	J/mol×K	520.85	Joback Method
cpg	276.45	J/mol×K	551.98	Joback Method
cpg	286.16	J/mol×K	583.11	Joback Method
cpg	295.47	J/mol×K	614.24	Joback Method
cpg	304.37	J/mol×K	645.37	Joback Method
cpg	312.87	J/mol×K	676.50	Joback Method

dvisc	0.0027292	Pa×s	290.74	Joback Method
dvisc	0.0015623	Pa×s	323.90	Joback Method
dvisc	0.0009920	Pa×s	357.07	Joback Method
dvisc	0.0006804	Pa×s	390.23	Joback Method
dvisc	0.0004951	Pa×s	423.39	Joback Method
dvisc	0.0003773	Pa×s	456.56	Joback Method
dvisc	0.0002983	Pa×s	489.72	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C20279441&Units=SI

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

Latest version available from:

<https://www.chemeo.com/cid/19-486-2/Butyl-pyruvate.pdf>

Generated by Cheméo on 2025-12-05 13:21:29.437278076 +0000 UTC m=+4689086.967318729.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.