

Glutaric acid, di(3-oxobut-2-yl) ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C13H20O6/c1-8(14)10(3)18-12(16)6-5-7-13(17)19-11(4)9(2)15/h10-11H,5-7H2

PYEAQKUFCRZTFA-UHFFFAOYSA-N

C13H20O6

CC(=O)C(C)OC(=O)CCCC(=O)OC(C)C(C)=O

272.29

Physical Properties

Property code	Value	Unit	Source
gf	-671.98	kJ/mol	Joback Method
hf	-1036.97	kJ/mol	Joback Method
hfus	31.15	kJ/mol	Joback Method
hvap	75.56	kJ/mol	Joback Method
log10ws	-1.77		Crippen Method
logp	1.198		Crippen Method
mcvol	212.050	ml/mol	McGowan Method
pc	2007.30	kPa	Joback Method
rinpol	1860.00		NIST Webbook
tb	756.28	K	Joback Method
tc	952.49	K	Joback Method
tf	450.45	K	Joback Method
vc	0.811	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	607.52	J/mol×K	756.28	Joback Method
cpg	664.21	J/mol×K	919.79	Joback Method
cpg	654.59	J/mol×K	887.08	Joback Method
cpg	644.11	J/mol×K	854.38	Joback Method
cpg	632.77	J/mol×K	821.68	Joback Method
cpg	620.57	J/mol×K	788.98	Joback Method
cpg	672.97	J/mol×K	952.49	Joback Method
dvisc	0.0001103	Pa×s	756.28	Joback Method
dvisc	0.0001447	Pa×s	705.31	Joback Method

dvisc	0.0001980	Pa×s	654.34	Joback Method
dvisc	0.0002857	Pa×s	603.37	Joback Method
dvisc	0.0004410	Pa×s	552.39	Joback Method
dvisc	0.0007436	Pa×s	501.42	Joback Method
dvisc	0.0014112	Pa×s	450.45	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U359715&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

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/39-030-5/Glutaric-acid-di-3-oxobut-2-yl-ester.pdf>

Generated by Cheméo on 2025-12-05 23:30:31.448815051 +0000 UTC m=+4725628.978855706.

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