

Glutaric acid, butyl 3-methylbutyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C14H26O4/c1-4-5-10-17-13(15)7-6-8-14(16)18-11-9-12(2)3/h12H,4-11H2,1-3H3

XYNJOTKEPCVWDQ-UHFFFAOYSA-N

C14H26O4

CCCCOC(=O)CCCC(=O)OCCC(C)C

258.35

Physical Properties

Property code	Value	Unit	Source
gf	-403.28	kJ/mol	Joback Method
hf	-827.17	kJ/mol	Joback Method
hfus	34.07	kJ/mol	Joback Method
hvap	64.68	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	3.089		Crippen Method
mcvol	223.000	ml/mol	McGowan Method
pc	1649.77	kPa	Joback Method
rinpol	1757.00		NIST Webbook
rinpol	1767.00		NIST Webbook
tb	671.86	K	Joback Method
tc	850.20	K	Joback Method
tf	376.86	K	Joback Method
vc	0.862	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	622.64	J/mol×K	671.86	Joback Method
cpg	638.53	J/mol×K	701.58	Joback Method
cpg	653.66	J/mol×K	731.31	Joback Method
cpg	668.05	J/mol×K	761.03	Joback Method
cpg	681.70	J/mol×K	790.75	Joback Method
cpg	694.61	J/mol×K	820.48	Joback Method
cpg	706.79	J/mol×K	850.20	Joback Method
dvisc	0.0018269	Pa×s	376.86	Joback Method

dvisc	0.0008752	Pa×s	426.03	Joback Method
dvisc	0.0004883	Pa×s	475.19	Joback Method
dvisc	0.0003039	Pa×s	524.36	Joback Method
dvisc	0.0002052	Pa×s	573.53	Joback Method
dvisc	0.0001474	Pa×s	622.69	Joback Method
dvisc	0.0001111	Pa×s	671.86	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=U359359&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/36-789-7/Glutaric-acid-butyl-3-methylbutyl-ester.pdf>

Generated by Cheméo on 2025-12-05 13:55:43.991144384 +0000 UTC m=+4691141.521185037.

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