

Glutaric acid, isobutyl phenethyl ester

Inchi:	InChI=1S/C17H24O4/c1-14(2)13-21-17(19)10-6-9-16(18)20-12-11-15-7-4-3-5-8-15/h3-5,
InchiKey:	CRRGVXMBWRS GOD-UHFFFAOYSA-N
Formula:	C17H24O4
SMILES:	CC(C)COC(=O)CCCC(=O)OCCc1ccccc1
Mol. weight [g/mol]:	292.37

Physical Properties

Property code	Value	Unit	Source
gf	-265.61	kJ/mol	Joback Method
hf	-652.56	kJ/mol	Joback Method
hfus	35.88	kJ/mol	Joback Method
hvap	73.64	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	3.142		Crippen Method
mcvol	241.510	ml/mol	McGowan Method
pc	1708.95	kPa	Joback Method
rinpol	2165.00		NIST Webbook
rinpol	2165.00		NIST Webbook
tb	767.18	K	Joback Method
tc	969.48	K	Joback Method
tf	437.09	K	Joback Method
vc	0.921	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	705.62	J/mol×K	767.18	Joback Method
cpg	721.35	J/mol×K	800.90	Joback Method
cpg	736.03	J/mol×K	834.61	Joback Method
cpg	749.67	J/mol×K	868.33	Joback Method
cpg	762.30	J/mol×K	902.04	Joback Method
cpg	773.93	J/mol×K	935.76	Joback Method
cpg	784.60	J/mol×K	969.48	Joback Method
dvisc	0.0010935	Pa×s	437.09	Joback Method

dvisc	0.0005455	Pa×s	492.11	Joback Method
dvisc	0.0003130	Pa×s	547.12	Joback Method
dvisc	0.0001988	Pa×s	602.13	Joback Method
dvisc	0.0001362	Pa×s	657.15	Joback Method
dvisc	0.0000989	Pa×s	712.16	Joback Method
dvisc	0.0000752	Pa×s	767.18	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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=U358678&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.cheméo.com/cid/39-130-4/Glutaric-acid-isobutyl-phenethyl-ester.pdf>

Generated by Cheméo on 2025-12-05 23:29:06.305198307 +0000 UTC m=+4725543.835238961.

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