

Glutaric acid, 2-methylpent-3-yl phenethyl ester

Inchi:	InChI=1S/C19H28O4/c1-4-17(15(2)3)23-19(21)12-8-11-18(20)22-14-13-16-9-6-5-7-10-16
InchiKey:	HLJAWZGPMMLVMP-UHFFFAOYSA-N
Formula:	C19H28O4
SMILES:	CCC(OC(=O)CCCC(=O)OCCc1ccccc1)C(C)C
Mol. weight [g/mol]:	320.42

Physical Properties

Property code	Value	Unit	Source
gf	-251.21	kJ/mol	Joback Method
hf	-699.12	kJ/mol	Joback Method
hfus	37.53	kJ/mol	Joback Method
hvap	77.70	kJ/mol	Joback Method
log10ws	-4.47		Crippen Method
logp	3.920		Crippen Method
mcvol	269.690	ml/mol	McGowan Method
pc	1475.88	kPa	Joback Method
rinpola	2213.00		NIST Webbook
tb	812.50	K	Joback Method
tc	1015.45	K	Joback Method
tf	444.63	K	Joback Method
vc	1.028	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	820.77	J/molxK	812.50	Joback Method
cpg	837.10	J/molxK	846.32	Joback Method
cpg	852.27	J/molxK	880.15	Joback Method
cpg	866.32	J/molxK	913.97	Joback Method
cpg	879.27	J/molxK	947.80	Joback Method
cpg	891.14	J/molxK	981.62	Joback Method
cpg	901.96	J/molxK	1015.45	Joback Method
dvisc	0.0010535	Paxs	444.63	Joback Method
dvisc	0.0004721	Paxs	505.94	Joback Method

dvisc	0.0002516	Paxs	567.25	Joback Method
dvisc	0.0001517	Paxs	628.57	Joback Method
dvisc	0.0001000	Paxs	689.88	Joback Method
dvisc	0.0000706	Paxs	751.19	Joback Method
dvisc	0.0000525	Paxs	812.50	Joback Method

Sources

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=U391788&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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/92-093-7/Glutaric-acid-2-methylpent-3-yl-phenethyl-ester.pdf>

Generated by Cheméo on 2024-04-19 15:22:39.517866385 +0000 UTC m=+15829408.438443701.

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