

Glutaric acid, 3-methylbut-2-en-1-yl neopentyl ester

Inchi:	InChI=1S/C15H26O4/c1-12(2)9-10-18-13(16)7-6-8-14(17)19-11-15(3,4)5/h9H,6-8,10-11H
InchiKey:	AETOZYXYJQINMH-UHFFFAOYSA-N
Formula:	C15H26O4
SMILES:	CC(C)=CCOC(=O)CCCC(=O)OCC(C)(C)C
Mol. weight [g/mol]:	270.36

Physical Properties

Property code	Value	Unit	Source
gf	-317.91	kJ/mol	Joback Method
hf	-743.85	kJ/mol	Joback Method
hfus	31.66	kJ/mol	Joback Method
hvap	66.04	kJ/mol	Joback Method
log10ws	-3.44		Crippen Method
logp	3.255		Crippen Method
mcvol	232.790	ml/mol	McGowan Method
pc	1612.88	kPa	Joback Method
rinpol	1751.00		NIST Webbook
rinpol	1751.00		NIST Webbook
tb	695.99	K	Joback Method
tc	885.91	K	Joback Method
tf	386.51	K	Joback Method
vc	0.893	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	656.75	J/mol×K	695.99	Joback Method
cpg	672.92	J/mol×K	727.64	Joback Method
cpg	688.21	J/mol×K	759.30	Joback Method
cpg	702.65	J/mol×K	790.95	Joback Method
cpg	716.27	J/mol×K	822.61	Joback Method
cpg	729.10	J/mol×K	854.26	Joback Method
cpg	741.17	J/mol×K	885.91	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=U391609&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
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	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

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