

Glutaric acid, decyl 2-isopropoxyphenyl ester

Inchi:	InChI=1S/C24H38O5/c1-4-5-6-7-8-9-10-13-19-27-23(25)17-14-18-24(26)29-22-16-12-11
InchiKey:	QOGZIPWMSJWJIZ-UHFFFAOYSA-N
Formula:	C24H38O5
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	406.56

Physical Properties

Property code	Value	Unit	Source
gf	-321.30	kJ/mol	Joback Method
hf	-940.73	kJ/mol	Joback Method
hfus	54.81	kJ/mol	Joback Method
hvap	92.29	kJ/mol	Joback Method
log10ws	-7.16		Crippen Method
logp	6.233		Crippen Method
mcvol	346.010	ml/mol	McGowan Method
pc	1025.31	kPa	Joback Method
rinqol	2892.00		NIST Webbook
tb	954.74	K	Joback Method
tc	1168.99	K	Joback Method
tf	550.73	K	Joback Method
vc	1.331	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1149.58	J/molxK	954.74	Joback Method
cpg	1165.91	J/molxK	990.45	Joback Method
cpg	1180.71	J/molxK	1026.16	Joback Method
cpg	1193.99	J/molxK	1061.87	Joback Method
cpg	1205.77	J/molxK	1097.57	Joback Method
cpg	1216.09	J/molxK	1133.28	Joback Method
cpg	1224.96	J/molxK	1168.99	Joback Method
dvisc	0.0002940	Paxs	550.73	Joback Method
dvisc	0.0001486	Paxs	618.07	Joback Method

dvisc	0.0000859	Paxs	685.40	Joback Method
dvisc	0.0000548	Paxs	752.73	Joback Method
dvisc	0.0000376	Paxs	820.07	Joback Method
dvisc	0.0000273	Paxs	887.40	Joback Method
dvisc	0.0000208	Paxs	954.74	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358577&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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

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