Glutaric acid, 3-methylbut-2-en-1-yl 4-biphenyl ester

Inchi: InChI=1S/C22H24O4/c1-17(2)15-16-25-21(23)9-6-10-22(24)26-20-13-11-19(12-14-20)18

InchiKey: LSKPNBMIYXPFKC-UHFFFAOYSA-N

Formula: C22H24O4

SMILES: CC(C)=CCOC(=O)CCCC(=O)Oc1ccc(-c2ccccc2)cc1

Mol. weight [g/mol]: 352.42

Physical Properties

Property code	Value	Unit	Source
gf	-46.62	kJ/mol	Joback Method
hf	-417.99	kJ/mol	Joback Method
hfus	44.90	kJ/mol	Joback Method
hvap	88.13	kJ/mol	Joback Method
log10ws	-6.45		Crippen Method
logp	4.939		Crippen Method
mcvol	283.900	ml/mol	McGowan Method
pc	1557.35	kPa	Joback Method
rinpol	2860.00		NIST Webbook
rinpol	2860.00		NIST Webbook
tb	917.72	K	Joback Method
tc	1146.47	K	Joback Method
tf	528.34	K	Joback Method
vc	1.081	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	869.39	J/mol×K	917.72	Joback Method
cpg	883.56	J/mol×K	955.85	Joback Method
cpg	896.49	J/mol×K	993.97	Joback Method
cpg	908.24	J/mol×K	1032.10	Joback Method
cpg	918.89	J/mol×K	1070.22	Joback Method
cpg	928.49	J/mol×K	1108.35	Joback Method
cpg	937.12	J/mol×K	1146.47	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=U390122&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.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
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