Glutaric acid, 2,6-dimethoxyphenyl heptyl ester

Inchi: InChI=1S/C20H30O6/c1-4-5-6-7-8-15-25-18(21)13-10-14-19(22)26-20-16(23-2)11-9-12-1

InchiKey: QZNQTIWWLYJTBU-UHFFFAOYSA-N

Formula: C20H30O6

SMILES: CCCCCCCOC(=O)CCCC(=O)Oc1c(OC)cccc1OC

Mol. weight [g/mol]: 366.45

Physical Properties

Property code	Value	Unit	Source
gf	-467.17	kJ/mol	Joback Method
hf	-996.58	kJ/mol	Joback Method
hfus	48.77	kJ/mol	Joback Method
hvap	86.85	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.293		Crippen Method
mcvol	295.520	ml/mol	McGowan Method
pc	1294.86	kPa	Joback Method
rinpol	2704.00		NIST Webbook
tb	891.06	K	Joback Method
tc	1095.64	K	Joback Method
tf	555.40	K	Joback Method
vc	1.131	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	935.42	J/mol×K	891.06	Joback Method
cpg	996.85	J/mol×K	1061.54	Joback Method
cpg	987.28	J/mol×K	1027.45	Joback Method
cpg	976.34	J/mol×K	993.35	Joback Method
cpg	964.04	J/mol×K	959.25	Joback Method
cpg	950.40	J/mol×K	925.16	Joback Method
cpg	1005.05	J/mol×K	1095.64	Joback Method
dvisc	0.0000312	Pa×s	891.06	Joback Method
dvisc	0.0000394	Pa×s	835.12	Joback Method

dvisc	0.0000515	Pa×s	779.17	Joback Method
dvisc	0.0000700	Pa×s	723.23	Joback Method
dvisc	0.0001004	Pa×s	667.29	Joback Method
dvisc	0.0001537	Pa×s	611.34	Joback Method
dvisc	0.0002563	Pa×s	555.40	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=U358710&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
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