Glutaric acid, monoamide, N-(2,4-dimethoxyphenyl)-, ethyl ester

Inchi: InChI=1S/C15H21NO5/c1-4-21-15(18)7-5-6-14(17)16-12-9-8-11(19-2)10-13(12)20-3/h8-1

InchiKey: GTKSPHVFHZABIX-UHFFFAOYSA-N

Formula: C15H21NO5

SMILES: CCOC(=O)CCCC(=O)Nc1ccc(OC)cc1OC

Mol. weight [g/mol]: 295.33

Physical Properties

Property code	Value	Unit	Source
gf	-314.88	kJ/mol	Joback Method
hf	-707.69	kJ/mol	Joback Method
hfus	39.73	kJ/mol	Joback Method
hvap	79.74	kJ/mol	Joback Method
log10ws	-2.87		Crippen Method
logp	2.376		Crippen Method
mcvol	229.180	ml/mol	McGowan Method
pc	1942.37	kPa	Joback Method
rinpol	2855.00		NIST Webbook
rinpol	2855.00		NIST Webbook
tb	804.41	K	Joback Method
tc	1009.46	K	Joback Method
tf	529.48	K	Joback Method
vc	0.869	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	674.99	J/mol×K	804.41	Joback Method
cpg	688.62	J/mol×K	838.59	Joback Method
cpg	701.23	J/mol×K	872.76	Joback Method
cpg	712.81	J/mol×K	906.94	Joback Method
cpg	723.34	J/mol×K	941.11	Joback Method
cpg	732.82	J/mol×K	975.29	Joback Method
cpg	741.24	J/mol×K	1009.46	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=U360875&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