4-Nitrobenzoic acid, 2,6-dimethylnon-1-en-3-yn-5-yl ester

Inchi: InChI=1S/C18H21NO4/c1-5-6-14(4)17(12-7-13(2)3)23-18(20)15-8-10-16(11-9-15)19(21)

InchiKey: YRJKPMMKGGFGRH-UHFFFAOYSA-N

Formula: C18H21NO4

SMILES: C=C(C)C#CC(OC(=O)c1ccc([N+](=O)[O-])cc1)C(C)CCC

Mol. weight [g/mol]: 315.36

Physical Properties

Property code	Value	Unit	Source
gf	282.30	kJ/mol	Joback Method
hf	-67.97	kJ/mol	Joback Method
hfus	43.66	kJ/mol	Joback Method
hvap	85.13	kJ/mol	Joback Method
log10ws	-6.07		Crippen Method
logp	4.136		Crippen Method
mcvol	252.680	ml/mol	McGowan Method
pc	1812.32	kPa	Joback Method
rinpol	2182.00		NIST Webbook
tb	875.71	K	Joback Method
tc	1117.79	K	Joback Method
tf	607.71	K	Joback Method
vc	0.974	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	750.97	J/mol×K	875.71	Joback Method
cpg	765.32	J/mol×K	916.06	Joback Method
cpg	778.45	J/mol×K	956.40	Joback Method
cpg	790.41	J/mol×K	996.75	Joback Method
cpg	801.26	J/mol×K	1037.10	Joback Method
cpg	811.08	J/mol×K	1077.45	Joback Method
cpg	819.91	J/mol×K	1117.79	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U299271&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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