

Benzamide, n-(1-naphthyl)-3-methoxy-

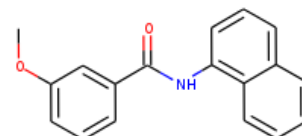
InChI: InChI=1S/C18H15NO2/c1-21-15-9-4-8-14(12-15)18(20)19-17-11-5-7-13-6-2-3-10-16(13)17/h2-12H,1H3,(H,19,20)

InChI Key: OHBKVALAKGKLJH-UHFFFAOYSA-N

Formula: C18H15NO2

SMILES: COc1cccc(C(=O)Nc2cccc3ccccc32)c1

Molecular Weight: 277.32



Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	268.36	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	35.01	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	34.59	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	78.77	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	4.101		Crippen Method
P_c	2475.19	kPa	Joback Method
T_{boil}	820.00	K	Joback Method
T_c	1068.62	K	Joback Method
T_{fus}	528.02	K	Joback Method
V_c	0.808	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	606.83	J/mol×K	820.0	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C18H15NO2/c1-21-15-9-4-8-14\(12-15\)18\(20\)19-17-11-5-7-13-6-2-3-10-16\(13\)17/h2-12H,1H3,\(H,19,20\)](http://webbook.nist.gov/cgi/inchi/InChI=1S/C18H15NO2/c1-21-15-9-4-8-14(12-15)18(20)19-17-11-5-7-13-6-2-3-10-16(13)17/h2-12H,1H3,(H,19,20))

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Legend

$C_{p, gas}$: Ideal gas heat capacity (J/mol×K).

$\Delta_f G^\circ$: Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$: Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$: Enthalpy of vaporization at standard conditions (kJ/mol).

$\log P_{oct/wat}$: Octanol/Water partition coefficient .

P_c : Critical Pressure (kPa).

T_{boil} : Normal Boiling Point Temperature (K).

T_c : Critical Temperature (K).

T_{fus} : Normal melting (fusion) point (K).

V_c : Critical Volume (m³/kg-mol).

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