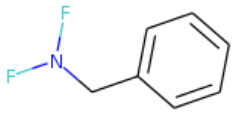
N,N-Difluorobenzylamine

InChI: InChI=1S/C7H7F2N/c8-10(9)6-7-4-2-1-3-5-7/h1-5H,6H2
InChI Key: QSSYZZLBAAQNKO-UHFFFAOYSA-N
Formula: C7H7F2N
SMILES: FN(F)Cc1ccccc1
Molecular Weight: 143.13
CAS: 23162-99-4



Physical Properties

Property	Value	Unit	Source
$\Delta_c H°_{liquid}$	-4076.00 ± 3.00	kJ/mol	NIST Webbook
$\Delta_f G°$	-158.37	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	7.00 ± 4.00	kJ/mol	NIST Webbook
$\Delta_f H°_{liquid}$	-37.00 ± 3.00	kJ/mol	NIST Webbook
$\Delta_{fus} H°$	17.11	kJ/mol	Joback Method
$\Delta_{vap} H°$	44.00 ± 1.00	kJ/mol	NIST Webbook
$logP_{oct/wat}$	2.26		Crippen Method
P_c	3668.65	kPa	Joback Method
T_{boil}	397.22	K	Joback Method
T_c	583.72	K	Joback Method
T_{fus}	228.72	K	Joback Method
V_c	0.37	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	181.99	J/mol×K	397.22	Joback Method

Property	Value	Unit	Temperature (K)	Source
$\Delta_{vap}H$	77.80	kJ/mol	323.0	NIST Webbook

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C7H7F2N/c8-10(9)6-7-4-2-1-3-5-7/h1-5H,6H2
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

$\Delta_c H°_{liquid}$: Standard liquid enthalpy of combustion (kJ/mol).
$C_{p,gas}$: Ideal gas heat capacity (J/mol×K).
$\Delta_f G°$: Standard Gibbs free energy of formation (kJ/mol).
$\Delta_f H°_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).
$\Delta_f H°_{liquid}$: Liquid phase enthalpy of formation at standard conditions (kJ/mol).
$\Delta_{fus} H°$: Enthalpy of fusion at standard conditions (kJ/mol).
$\Delta_{vap} H°$: Enthalpy of vaporization at standard conditions (kJ/mol).
$\Delta_{vap} H$: Enthalpy of vaporization at a given temperature (kJ/mol).
$logP_{oct/wat}$: 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 (m^3/kg-mol).