

Cosutin Industrial CO., Limited

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HFC-410A (R410A)

GENERAL DESCRIPTION

HFC-410A is a zeotropic, but near-azeotropic mixture of difluoromethane (CH₂F₂, called R-32, 50%) and pentafluoroethane (CHF₂CF₃, called R-125, 50%), which is used as a refrigerant in air conditioning applications. HFC-410A cylinders are colored pink.

Mainly used to substitute R22 and R502 in home air-conditioners, small business air-conditioner and some central air-conditioners.

Unlike alkyl halide refrigerants that contain bromine or chlorine, HFC-410A (which contains only fluorine) does not contribute to ozone depletion, and is therefore becoming more widely used, as ozone-depleting refrigerants like R-22 are phased out. Since HFC-410A allows for higher SEER ratings than an R-22 system, by reducing power consumption, the overall impact on global warming of HFC-410A systems will be substantially lower than that of R-22 systems due to reduced greenhouse gas emissions from power plants.

SPECIFICATIONS

Appearance :	Colourless and not turbid
Purity, %	≥99.7%
Moisture%	≤0.001
Evaporation residue %	≤0.01
Acidity %	≤0.0001

PROPERTIES

HFC-410A

CAS Number: 75-10-5/354-33-6

Colour: Colourless

Smell: Slight ethereal

Appearance: Colourless and not turbid

Chemical name: Difluoromethane/Pentafluoroethane

Chemical formula: CH₂F₂/C₂HF₅

pH Neutral

pKa Not applicable

Boiling point (1 atm), °C -51.6

Vapor pressure hPa (25 °C) 16530

Vapor pressure hPa (50 °C) 30520

Relative density 25°C (g/cm³) 1.062

Critical pressure, MPa 4.95

Critical density g/cm³ -

Critical temperature °C 72.5

Solubility(in water), 25°C, 100 Pa -

Liquid Specific heat, 30°C, [KJ/(kg °C)] 1.78

ODP 0

GWP 0.2

Decomposition temperature °C -

Handling method and safety information

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HFC-410A is liquefied gas. Read the Material Safety Data Sheet (MSDS) before use.

Hazard pictogram(s):



Packaging specifications

Filled in 11.3kg/500kg/1000kg cylinders, ISO tank.